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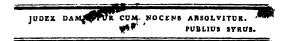
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ADVERTISEMENT.

THE Editors have annexed to this Number, a List of all the Books that have been published in this country during the last three months, and of the most considerable works that have yet reached them from the Continent. The List, as it stands, is unquestionably the most complete that has yet been presented to the Public; and the Editors have it in contemplation to enlarge it, in some of the succeeding Numbers, by the addition of very brief characters of such of the new works as have been perused, and are not thought to require a more extensive discussion.

24th October, 1803.

PRESENTED BY ABANI NATU MUKHARJI OF UTTAKPARA.

EDINBURGH REVIEW,

OCTOBER 1803.

 $\mathcal{N}^{o.}$ V.

ART. I. Lectures on the Elements of Chemistry, delivered in the University of Edinburgh, by the late Jeseph Black, M. D. &c. &c. Now published from his MSS. by John Robison, LL.D. Prosessor of Natural Philosophy in the University of Edinburgh. 2 vol. 4to. pp. 1384. Longman & Rees, London. Creech, Edinburgh. 1803.

In performing the duties of Editor to the discourses of his departed friend, Professor Robison had peculiar difficulties to overcome. With a few exceptions, Dr Black's lectures were left in a very disordered and imperfect state; generally written indistinctly upon scraps of paper; often in the form of notes or memorandums, from which he had spoken extempore; frequently consisting of references to the experiments that went on during the lesson.

To counterbalance these disadvantages, the editor possessed fome very important qualifications and happy facilities. had known Dr Black most intimately for a long course of years; during which he had been, first, his favourite pupil, then his fucceflor, and, laftly, his colleague. He enjoyed the friendship of the distinguished circle of philosophers among whom this great man, after achieving the most brilliant discoveries of modern times, happily and elegantly passed the quiet remainder of his days. From these friends, Mr Robison obtained all the information and affiftance that the nature of his office required. He had free access to every document which could enable him to furnish the public with an accurate transcript of these celebrated lectures, or to aid his own recollections in prefenting a sketch of their author, and in completing a history of the steps by which his discoveries were made. By a coincidence, equalty rare and fortunate, journals of Dr Black's scientific pursuits were preserved from the time of his first application to speculative matters; and Mr Robifon has been enabled to funply fome of the dates AND CHILLIAN CHILLIAN OF THE PROPERTY OF THE P which were of importance, from his own recollection of incidents calculity fet down.

It took his fancy, in medicine, chemistry, jurisprudence, or matters of taste; and I find others into which he has transferred the same things, but has distributed them according to their scientific connexions. In short, he has kept a journal and leger of his studies, and has posted his books like a merchant. I have looked over these memorandums with some care, and have there seen the first germs of those discoveries which have at last produced such a complete revolution in chemical science. What particularly struck me, was the steadiness with which he advanced in any path of knowledge,—nulla retrossum. Things are inserted for the first time, from some present impression of their singularity or importance, but without any allusion to their connexions. When a thing of the same kind is mentioned again, there is generally a reference back to its sellow; and thus the most insulated facts often acquired a connexion which gave them scientiss importance. Presace, p. xxii. xxiii.

Mr Robifon has performed the duty entrusted to him by his friend's executors, in such a manner as must entitle him not merely to their thanks, but to the lasting gratitude of the scientific world. He has presented us with a very full, and apparently a very accurate collection, of the most valuable parts of the lectures, as nearly as possible in the very words of the teacher. He has faithfully adhered to the arrangement of the course, except in two instances, where a flight change feems to be perfectly justified by the convenience which attends it. His preface contains a clear and compendious account of the import of Dr Black's discoveries, and a very interesting sketch of his life. In the foot-notes, he has occafionally added to the rich collection of facts and observations contained in the text, feveral valuable remarks and statements suggested by his own experience. In the more copious notes subjoined to each volume, he has introduced various discussions of the highest importance both to the elucidation of the general subject, and the establishment of leading points in the history of the science. our fcientific readers confider, how much of all this confifts in mere labour, unrepaid by the peculiar reward of genius; and let them remember that Mr Robifon's talents are as original as his acquirements are various and profound: they will then be able to estimate the extent of the obligations under which he has laid them by editing this valuable work.

It would be perfectly inconfiftent with our plan, and far exceed our limits, to analyze these lectures, or the commentaries of the editor, which, like the text, must necessarily be very miscellaneous. We shall confine ourselves to a few general observations on each of the two departments; and shall, in the first plane, endemour to make our senders acquainted with the illustrious

trious man whole life and discoveries confer upon the present publication its chief interest.

Joseph Black was sprung from a Scotish family, transplanted first to Ireland, and then to France, the country which gave him birth. He spent, in Bordeaux and its vicinity, those years of infancy devoted by the constitution of human nature to imbecility, thraldom and ignorance, and extolled, by the general content of mankind, as the feafon of genuine happiness. The biographer has wifely passed over the history of this blissful period, and preferred dwelling upon those scenes which display the ripened powers of the mind. After an account of the intimacy which sublisted between the amiable parents of the philosopher and the celebrated prefident Montesquieu, the narrative is pursued from the period of Dr Black's removal to Belfast, in the twelfth year of his age. He there received the rudiments of his literary education, and finished it at the University of Glasgow, the scene of his future discoveries. His attention appears to have been divided between the science which his natural bias led him peculiarly to cultivate, and those more general objects of speculation which enlarge the understanding, while they improve the taste. Although his application to these delightful pursuits was never very ardent, it was steady and vigorous. If he did not, like Pascal, Newton, M'Laurin, and various writers on lighter subjects, astonish the world by a premature display of talents, his want of those stronger passions, which lead to an early developement of genius, infured him the possession of a calm and immoveable judgement, a patient capacity of observation, and a modest distrust of theory, -the most essential characteristics of the inductive philosopher.

In the course of his studies, he does not appear to have entered deeply into the abstract sciences, either of mathematical or metaphysical truth. His taste led him rather to the contemplation of real and external objects; and he soon employed as much of his talents as he ever devoted to severe study, in the investigations of experimental philosophy. The physical discoveries of Sir Isaac Newton attracted his chief admiration; and, upon the unequalled models of inductive disquisition which the treatise of Light contains, his scientistic habits were happily formed. After he had, by his own discoveries, laid the foundation of a revolution in science, almost equal to the changes which his great master had effected, we find him steadily persevering in the same strict and chastened system of inductive logic, and freely ac-

knowledging the fources of his skill.

My acquaintance with him (fays Mr Robifon) began at Glafgow in 1758, I being then a fludent in that University; and it began in a way which marked the diffinguished anishbeness of his disposition and behaviour.

haviour. It was at the house of one of the Profesiors, to whom I was telling the great entertainment I had received from the lectures of Dr Robert Dick, Professor of Natural Philosophy, and how much I admired him as a lecturer. Dr Black joined in the commendation; and then, addressing himself to me, questioned me a good deal about natural philosophy, so as to perceive what were the peculiar objects of my attention. His advices relative to my favourite fludy were so impressive, and given in a manner so unaffectedly serious and kind, that they are still as fresh in my mind as if of yesterday's date. I was a stranger to him, and not even his pupil; and he was prompted to take that pains with me, foleby by the way in which he heard me speaking of the lectures of one whom he loved and efteemed. Gently and gracefully checking my. disposition to form theories, he warned me to suspect all theories whatever, prefled on me the necessity of improving in mathematical knowledge, and gave me Newton's Optics to read, advising me to make that book the model of all my studies, and to reject, even without examination, every hypothetical explanation, as a mere waste of time and ingenuity. Preface, p. vii.

The profession of medicine, which Dr Black chose from its confonance with the teneur of his favourite studies, was extremely unfuitable to his delicate conflitution, and the amiably folicitous temper of his mind. The duties of his station as a physician, and of his three fuccessive professorthips, were, unfortunately for science, (we may add, for his own fame), matters of fuch anxious care, as to distract much of his attention from the path of original investigation, which he had entered with the most splendid prospects of success. The doctrine of latent heat appears to have been early familiar to his thoughts. In the oldest parcels of his notes, Mr Robifon found queries relative to this point; and Dr Black himself afferts, (vol. I. p. 156.), that he can scarcely remember the time when he had not some idea of the difagreement of the facts with the common doctrines of heat. The extracts from the memorandum-books given in these volumes, fufficiently prove, that, while a student, his ideas had been somewhat matured upon the subject. Before the year 1763, his whole experiments and inquiries on the absorption of heat, were brought to a conclusion; and his inaugural differtation, when he received a degree in 1754, contained an account of his other grand discovery the nature of the alkaline earths, and the properties of fixed air. He removed from Glasgow to Edinburgh in 1766, and died in 1709. How great a part, then, of this, most valuable life was spent in the mere exercise of professional duties! At an age when the bulk of philosophers are only beginning to frike but new lighter Black had closed his thort career of brilliant dif-Receive; entered upon the common talk of a chemical teacher; hauted his ambition to the simple explication of a science which he might have created anew; and left to his more ardent, or more fortunate fucceffors, the glories of rearing a fystem, of which he had laid the firm foundations, and furnished the chief materials. We shall afterwards see, that they are charged with refusing to engrave his name upon the structure, and to bestow his portion of honour on him whose genius and ill fate had left them

fo ample a share.

In contemplating the intellectual character of this eminent perfon, we cannot fail to be delighted with the observation of that unity which feems peculiar to minds of the first order. An original genius is often to be found in all the departments of human excellence. But it is rarely, indeed, that we can discover one whose features are at once distinctly marked, and nicely blended; each different from the ordinary cast, and all animated by the same spirit. The most astonishing inteliect that has ever been permitted to enlighten mankind, possessed this rare harmony in the very highest degree. Those qualities which distinguished the father of inductive science from every other philosopher, were equally confpicuous in each of his various exertions; and the preeminent dignity of his powers was fustained through all the thousand operations by which he enlarged the grasp of the human mind. is in vain that we fearch every corner of the Newtonian writings, for some trifling proof that their author was, like ourselves, liable to the common intellectual failings of the species. We are confoled by no glimple of wavering steps, even on the most delicate ground; or hasty advances, where the footing is furest, and the prize most attractive; or careless examination, where the intermediate objects are most trivial; or relaxation, when the greatest obstacles have been surmounted; or intemperate triumph, when the most dazzling prospects are displayed. Each height is reached by the fafest and the shortest path, with the smallest bustle; and the attainment is only valued as leading to some loftier eminence. Each politition is alike marked by its distance from the ordinary level; by the nature of the works which secure it, and of the country which it commands. The chief characteristic of Newton, is the degree of superiority in which he towers above every other natural philosopher, so as to form a class by himself. But the kind of his excellence is also remarkable and uniform. The diftance and diffimilarity of the objects which his discoveries enable us to compare, is not more aftonishing, than the ease and simplicity of the means of comparison. The pleasure of contemplation, which forms the primary object of all abstract science, and which the view of those comparisons invariably bestows, is equalled by the practical importance of the confequences to which they may be applied. The enunciation of the proposition is not

more unexpected, than the demonstration is slowing, and the corollaries useful. All those various investigations, too, are the easy and natural work of one great, simple mind, versatile in the direction of its efforts, but uniform in its mode of operation; not the attempts of an ordinary intellect, straining at universality

by ambitious mimicry of different talents.

In these particulars, we cannot avoid observing a striking analogy between the philosophical genius of Black and that of Newton. None of this illustrious man's followers has so correctly feized the true spirit of inductive reasoning by which he was guided, or combined to happily the utmost simplicity of means with the accomplishment of the most disticult and important ends, In all Dr Black's analytical inquiries, we perceive how much belongs to the mind of the observer; how little is left to the trick and dexterity of the operator. By placing nature in new combinations of circumstances, he extorts from her (to use the lang guage of Lord Bacon) some of her sublimest secrets: But these combinations are always simple and conclusive. He knows, too, that the ordinary combinations which we witness every hour, require only patient observation, to furnish the unbiassed reasoner with ample opportunities of generalization. Accordingly, in no scientific inquiries, fince the date of the Principia and Optics, do we find fo great a proportion of pure ratiocination, founded upon the description of common facts, but leading to the most unexpected and important refults, as in the two grand fystems of Black. This mode of investigating the laws of nature has various advantages of the highest consequence. It diminishes incalculably the chances of mistake, by precluding the use of complicated apparatus. It brings home to every one the evidence of the difcoveries, and exposes the demonstration of each proposition to the most severe and universal scrutiny. It opens, to all who can obferve and reason, the field of important inquiry, and raises the mind to the most general views of the constitution of the world.

The same happy turn of mind which placed the scientific investigations of Dr Black so near the greatest discoveries that have ever been made by the species, was perceptible also in the elegance and ingenuity which it mingled with all his per-

fonal habits.

I have already observed, lays Mr Robison, that when I was first acquainted with Dr Black, his aspect was comely and interesting. As he advanced in years, his countenance continued to preserve that pleasing expressions of inward fatisfaction, which, by giving ease to the beholder, never fails to please. His manner was perfectly easy, and unstabled, and graceful. He was of most easy approach, assale, and their perfectly entered into convertation, whether serious or trivial. His mind

being abundantly furnished with matter, his conversation was at alltimes pertinent and agreeable: for Dr Black's acquirements were not merely those of a man of science. He was a stranger to none of the elegant accomplishments of life. He therefore easily fell into any topic of conversation, and supported his part in it respectably. He had a fine or accurate mulical ear, and a voice which would obey it in the most perfect manner; for he fung, and performed on the flute, with great tafte and feeling; and could fing a plain air at fight, which many instrumental performers cannot do. But this was science. Dr Black was a very intelligent judge of mufical composition; and I never heard any person express so intelligibly the characteristic differences of some of the national musics of Europe. I speak of Dr Black as I knew him at Glasgow: After his coming to Edinburgh, he gave up most of those amusements. Without having studied drawing, he had acquired a confiderable power of expression with his pencil, both in figures and in landscape. He was peculiarly happy in expressing the passions; and feemed, in this respect, to have the talent of a history painter. He had not had any opportunities of becoming a connoilleur; but his opinion of a piece of painting, or sculpture, was respected by good judges. Figure, indeed, of every kind, attracted his attention; -in architecture, furniture, ornament of every fort, it was never a matter of indifference. Even a retort, or a crucible, was to his eye an example of beauty or deformity. His memorandum books are full of studies. (may I call them) of this fort; and there is one drawing of an iron furnace, fitted up with rough unhewn timber, that is finished with great beauty, and would not diffrace the hand of a Woollet. Naturally, therefore, the young ladies were proud of Dr Black's approbation of their tafte in matters of ornament. These are not indifferent things; they are features of an elegant mind, and they account for some part of that satisfaction and pleasure which persons of all different habits and pursuits felt in Dr Black's company and conversation.

I think that I could frequently discover what was the circumstance of form, &c. in which Dr Black perceived or fought for beauty,—it was some suitableness or propriety; and he has often pointed it out to me, in things where I never should have looked for it. Yet I saw that he was ingeniously in the right. I may almost say that the love of propriety was the leading sentiment of Dr Black's mind. This was the first standard to which he appealed in all his judgments; and I believe he endeavoured to make it the directing principle of his conduct. Happy is the man whose moderation of pursuits leaves this sentiment in possession of much authority. Seldom are our judgments greatly wrong on this question; but we too seldom listen to them, Presace, p. lxvi. lxvii.

The following extract describes Dr Black's merits as a Lecturer, with a truth and precision which every one will immediately feel who has had the happiness of receiving instructions from that eminent teacher. The sustained elegance and propriety which

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we have already taken notice of, as characteristic both of his original linquiries, and of his demeanour in the ordinary affairs of
life; was equally confpicuous in this favourite line of exertion.

Dr Black now formed the firm resolution of directing his whole fludy to the improvement of his scholars in the elementary knowledge of chemistry. He saw too many of them with a very scanty stock of previous learning. He had many from the workshop of the manufacturer, who had none at all; and he faw that the number of fuch hearers must increase with the increasing activity and prosperity of the country: And these appeared to him as by no means the least important part of his auditory. To engage the attention of fuch pupils, and to be perfeetly understood by the most illiterate, was therefore considered by Dr Black as his most facred duty. Plain doctrines, therefore, taught in the plainest manner, must employ his chief study. That no help may be wanting, all must be illustrated by suitable experiments, by the exhibition of specimens, and the management of chemical processes. Nice and abstrufe philosophical opinions would not interest such hearers; and any doctrines, inculcated in a refined manner, and referring to elaborate. disquisitions of others, would not be understood by the major part of an audience of young persons, as yet only beginning their studies.

To this resolution Dr Black rigidly adhered, endeavouring every year to make his courses more plain and familiar, and illustrating them by a greater variety of examples in the way of experiment. No man could perform these more neatly and successfully. They were always ingeniously and judiciously contrived, clearly establishing the point in view, and never more than sufficed for this purpose. While he scorned the quackery of a showman, the simplicity, neatness, and elegance, with which they were performed, were truly admirable. Indeed, the fimplex munditive stamped every thing that he did. I think it was the imperceived operation of this impression that made Dr Black's lectures fuch a treat to all his scholars. They were not only instructed, but (they knew not how) delighted; and without any effort to please, but folely by the natural emanation of a gentle and elegant mind, cooperating, indeed, with a most perspicuous exhibition of his sentiments, Dr Black became a favourite lecturer; and many were induced, by the report of his fludents, to attend his courses, without having any particular relish for chemical knowledge, but merely in order to be pleased. This, however, contributed greatly to the extending the knowledge of chemistry; and it became a fashionable part of the accomplishment of a gentleman. Preface, p. l. li.

One prominent feature in Dr Black's character, Mr Robison does not appear to have delineated with sufficient strength: we mean the meant of passion. There can be no doubt that this defect, however much it may have contributed to the case and calcungs of his enjoyments, deprived his mind of that energy by much alone the greatest things are performed in the pursuits a

either of speculation or of active life. When we consider how fhort a period of time his original inquiries occupied, how carelessly he left his discoveries to be appropriated by others, how little progress he made in following out those sublime ideas, by the help of which his followers have overturned and created fyltems; nay, how long an interval he frequently suffered to elapse between the conception and execution of some experiment which was to decide the truth of a favourite theory; we must be convinced that he felt little of the inspiration so necessary to the full fuccess of those happy few who possess all the powers of philofophical investigation. This want of passion, or of ardour and energy, or, to give it the right name, this indolence, was confpicuous in all the particulars of Dr Black's conduct. The discoverywhich he first made, was the last of being completed. He never could be induced to publish any account of it to the world, notwithstanding the constant attempts of his rivals to deprive him of the claim. He was at all times averse to publication, and fastidious, to an uncommon degree, in his judgments of his own compositions. When the experimentum crucis of his doctrine of latent heat occurred to him, he delayed making it for many months, because there happened to be no icehouse in the town where he lived. In extending this doctrine to the case of aeriform fluidity, he remained for years fatisfied with analogies and rough sketches of experiments, which he could at any time have performed with eafe; and however little doubt he had reason to entertain of the refult, he evinced none of that anxiety, which is fo natural to a discoverer even on the least important points of his theory. After afcertaining the existence of fixed air, and determining fome of its qualities, he delayed investigating its other properties, and pursuing the most obvious experiments on analogous bodies; until the field was occupied by others, who, with scarcely a spark of his truly philosophical genius, were enabled, by their fuperior activity, to make the most valuable discoveries. Nor can we avoid remarking how closely his propriety and correctness of character was connected with this freedom from passion, which always left his mind, as it were, disengaged, unabsorbed by any predominant enthusiasm, and at leisure to regard the most trivial concerns. He was never, like Newton or Smith, known to be absent in society; or thoughtless and playful in his hours of relaxation, like Hutton and Hume.

As Dr Black," (we quote the words of his near relation Dr Ferguson *) "had never any thing for oftentation, he was, at all times, precisely

Mr Robison has incorporated with the narrative contained in his Preface, several extracts from a biographical sketch of Dr Black, drawn up by this eminent writer.

precided what the occasion required, and no more. Much as he was engaged in the details of his public station, and chemical exhibitions, his chambers were never seen lumbered with books and papers, or specimens of mineralogy, &c. or the apparatus of experiments. Nor did any one see Dr Black hurried at one time to recover matter which had been improperly neglected on a former occasion. Every thing being done in its proper season and place, he ever seemed to have leisure in store; and he was ready to receive his friend or acquaintance, and to take his part with cheerfulness in any conversation that occurred. And let me remark, that no one ever with more ease to himself refrained from professional discussions of any fort, or conversation in which he was acknowledged superior,—or with less self-denial, in mixed company, less the subject of conversation to be chosen by others." Preface, p. laviii.

His attention was awake, even to the mere trifles of life. His domestic affairs were regulated with an attention to minute circumstances, rarely to be observed in the household of a philosopher; and the fortune which his admirable economy enabled him to amass (notwithstanding various diminutions that his income suffered from his liberal and friendly disposition), was accurately bequeathed to his near relations, in shares proportioned to the degree which each individual possessed of his essem. He was often heard to express anxiety with respect to the mode of his death, and to wish for a quiet departure from this world, without the evils of a long continued sick-bed. It is singular, how characteristic of the man, and how suitable to such feelings, this last scene actually proved.

. " On the 26th November 1799, and in the seventy-first year of his age, he expired, without any convultion, thock, or stupor, to announce or retard the approach of death. Being at table, with his usual fare, some bread, a few prunes, and a measured quantity of milk, diluted with water, and having the cup in his hand when the last stroke of his pulse was to be given, he had set it down on his knees, which were joined together, and kept it sleady with his hand, in the manner of a person persectly at ease; and in this attitude expired, without spilling a drop, and without a writhe in his countenance; as if an experiment had been required to shew to his friends the facility with which he departed." * His fervant opened the door to tell him that some one had left his name; but getting no answer, stepped about half way towards hind and feeing him fitting in that eafy posture, supporting his bason of milk with one hand, he thought that he had dropped affect, which he had fometimes feen happen after his meals. He went back, and that the doors but before he got down flairs, fome anxiety, which he not account for, made him return and look again at his matter, in then, he was latisfied, after coming pretty near him, and turned

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The fift part of this extract is taken from the Messon of Dir.

to go away; but again returned, and coming quite close to him, he found him without life. Preface, lxxiv, lxxy.

Such was the man, of whose lectures the volumes now before us contain a faithful transcript. They are, therefore, a most valuable acquisition, although we should allow them only the merit of a literary curiosity, a relique of the greatest inductive philosopher that has appeared since the days of Sir Isaac Newton, and, unfortunately, one of the very few monuments which his modesty and his indolence permitted him to leave. But this publication is highly important in another point of view; it contains the only history which we have of the discovery of latent heat, and a much more copious account of the discovery of fixed air

than that which the author published during his life.

The former of these discoveries is, in our opinion, the most important in its consequences, and the most signal, with regard to difficulty, of any that has been made fince the application of gravity to explain the laws of planetary motion. It differs from all the others with which we are acquainted in this material respect, that it is separated, by a vast interval, from the previous fteps of our knowledge. By how many infenfible gradations did we arrive at the doctrine of the composition of water? First, the inflammation of certain vapours was observed; then, the difcovery of fixed air having taught philosophers to examine the properties of certain elastic sluids, one of these was found to differ from the rest in being inflammable. It was afterwards remarked, that this air, when flowly burnt, produced moisture upon a cold body held over the flame: fixed air was, by fome. thought to be produced in the fame process; and reasoners inferred from hence, that the water had been contained in the inflammable air. But others varied the experiment, and burned the air in close vessels; moisture was still formed, and accurate observation showed that no new aëriform product resulted from the combustion. A new species of air having been discovered, much better calculated than common atmospherical air to support flame, the combustion of inflammable air was tried with this new species, and it was found to be extremely rapid. The combustion being performed in close vessels, the inaccuracy of the experiment gave rife to various errors; but water was always found to be produced: and some ingenious men, particularly Mr Watt, reasoning from all these facts, concluded that this sluid is a compound of the two airs, deprived, by their union, of a confiderable portion of their latent heat, the quantity (viz.) which is neceffary for maintaining the elastic aeriform state. This idea was verified by the accurate experiment of Mr Cavendish, in which the quantity of water formed was compared with the quantities of the airs burnt; and the French chemists added new proofs of the.

the propolition by the analytical process. This chain of investigation is evidently to long, and of such slow formation, that we cannot, with any degree of correctness, appreciate the comparative merits of those who severally extended it; nor point out the particular link upon which the grand discovery hangs. And the same distribution of praise is strictly proper in almost all the other instances of successful physical research. Even the composition of light was only unfolded by degrees, and appears to have been wonderfully nearly discovered by Grimaldi and others, with whose works Newton must have been acquainted. There are numerous proofs of fuch anticipations contained in the writings of Hook and Mayow, as our chemical readers well know. Mr Robifon has, in his notes to these lectures, pointed out several new and remarkable instances, more particularly from the works of the former. * The same observations may be extended to the most important discoveries in abstract science. The method of fluxions itself may be traced through a long fuccession of less elegant and less general inventions for finding quadratures and fubtangents.

But two great physical discoveries seem to have followed this law of continuity, in so slight a degree, that they may almost be allowed to form a case of exceptions to its operation. These are the universality of gravitation, and the combination of heat. before the time of Sir Isaac Newton, the influence of weight was only known by the falling of heavy bodies, all ideas of the attraction of gravitation were connected with this particular line of its operation: the only language in which men had ever learnt to express themselves upon the subject, was borrowed immediately from the particular case of vertical descent, and confined to the very limited sphere of its occurrence. In like manner, before the time of Dr Black, all the knowledge we had of the matter. or the motion of heat, was intimately connected with the idea of a fubiliance, or a state, by which the sense of touch is affected in a specific manner, and the dimensions of bodies sensibly increased. The phlogiston of Stahl was evidently no inference from induction, even as modified and altered by his followers; neither was it the hypothesis of any peculiar qualities in the matter of heat: It was the assumption of a substance, different from every other with which we are acquainted, endued with qualities repugnant

Note 13. Vol. I. contains a very interesting account of Hook's theory of combustion. Its similarity to the antiphlogistic doctrine is the public of the sense of

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to the universal properties of matter, and capable of producing every effect which the inventors might wish to explain. Phlogifton was indeed denominated the matter of heat and light; but it might as well have been called the reguline principle; and then, instead of faying that the escape of the matter of heat and light causes the calcination of metals, the followers of Stahl would have faid, that the escape of the reguline principle causes the combustion of inflammable bodies. It is evident, that no specific effect, no fubordination to the laws of chemical affinity, was ever ascribed to the substance which affects our sense with the feeling of heat, until Dr Black, from the most faithful and cautious examination of obvious facts, found, that this substance is capable of uniting with bodies, fo as not to affect our fenses with the peculiar feeling of heat, and yet to produce upon those bodies the most important changes—in the same manner that an acid, when combined with an alkali, ceases to taste sour, while it destroys the acridity of the alkali, and forms a third body, possessing the noxious qualities of neither. This physical law, discovered by the firstest induction, is applicable to the explanation of an infinite number of phænomena: its operations actually occur in almost every chemical experiment, and its influence is perceived in all the great processes of nature. For a most interesting detail of the steps by which Dr Black was led to the knowledge of it, we refer our readers to the first volume of these lectures. This narrative appears to us a model of philosophical writing, as well as of induction; making allowance for the style of conversation, which is obviously adopted as most suitable for a public elementary lec-

The other great discovery of Dr Black (the nature of the alkaline earths, and of fixed air) was scarcely less important in its confequences to chemical science, than the one which we have been contemplating. The account of it contained in these volumes, differs considerably from that which the author himself published. It dwells more minutely upon the steps of the investigation, and (with the exception of a few remarks upon borax, apparently copied from the treatise on magnesia alba and quicklime) it is composed in a style much less careful and sinished than that which the Doctor seems to have employed when he wrote for publication.

Our readers will derive some entertainment from the comparifon; and we shall here give, as a specimen of the manner which
distinguishes the whole of these lectures, the following passage
from the history of the discovery of fixed air. Its unites, with
great simplicity of diction, an exemplification of Dr Black's intmutable simplicity and ingenuity in the contrivance of experiments.

In the same year in which my first account of these experiments was published, namely 1757, I had discovered, that this particular kind of air, attracted by alkaline substances, is deadly to all animals that breathe it by the mouth and nostrils together; but that if the nostrils were kept shut, I was led to think that it might be breathed with safety. I found, for example, that when sparrows died in it in ten or eleven seconds, they would live in it for three or four minutes when the nostrils were shut by melted suet. And I convinced myself, that the change produced on wholesome air by breathing it; consisted chiefly, if not solely, in the conversion of part of it into fixed air. For I found, that by blowing through a pipe into lime-water, or a solution of caustic alkali, the lime was precipitated, and the alkali was rendered mild. I was partly led to these experiments by some observations of Dr Hales, in which he says, that breathing through diaphragms of cloth dipped in alkaline solution, made the air last longer for the purposes of life.

In the same year, I found that fixed air is the chief part of the elastic matter which is formed in liquids in the vinous fermentation. Van Helmont had indeed said this, and it was to this that he first gave the name gas silvestre. It could not long be unknown to those occupied in brewing or making wines. But it was at random that he said it was the same with that of the Grotto del Cane in Italy (but he supposed the identity, because both are deadly); for he had examined neither of them chemically, nor did he know that it was the air disengaged in the effervescence of alkaline substances with acids. I convinced myself of the sact, by going to a brew-house with two phials, one filled with distilled water, and the other with lime-water. I emptied the first into a vat of wort fermenting briskly, holding the mouth of the phial close to the surface of the wort. I then poured some of the lime-water into it, shut it with my finger, and shook it. The lime-water became turbid immediately.

Van Helmont says, that the dunste, or deadly vapour of burning charcoal, is the same gas silvestre; but this was also a random conjecture. He does not even say that it extinguishes stame; yet this was known to the chemists of his day. I had now the certain means of deciding the question, since, if the same, it must be fixed air. I made several indistinct experiments, as soon as the conjecture occurred to my thoughts; but they were with little contrivance or accuracy. In the evening of the same day that I discovered that it was fixed air that escaped from sermenting liquors, I made an experiment which satisfied me. Unfixing the nozzle of a pair of chamber bellows, I put a bit of charcal, just red hot, into the wide end of it, and then quickly putting

In the winter 1764-5, Dr Black rendered a confiderable quantity of confiderable alkali mild and crystalline, by causing it to filtre slowly by many, in an apparatus which was placed above one of the spiracles in the ceiling of a church, in which a congregation of more than 1500 many had continued near ten hours.—Editor.

ting it into its place again, I plusged the pipe to the bottom of a phial, and forced the air very flowly through the charcoal, so as to maintain its combustion, but not produce a heat too suddenly for the phial to bear. When I judged that the air of the phial was completely vitiated, I poured lime-water into it, and had the pleasure of seeing it become milky in a moment. Vol. II. p. 87. 88.

We cannot easily imagine a more interesting narrative; it reminds us of Montucla's admirable and animating account of the Torricellian experiment, with this essential difference, that here

the narrator was himself the performer of the action.

The following passage, from the concluding discourse on heat, may serve as an example of Dr Black's powers of description; and we cannot help regretting, that these volumes do not contain also the lecture in which he was wont (unnecessarily, indeed, but with great force of invective) to expose the manifold absurdities of Meyer's acidum pingue.

It is plain, that not only all animal and vegetable life, but that the whole face and appearance of nature, the very form and powers of the elements themselves, depend on this limited action of heat. There are none of the elementary bodies with which we are better acquainted than water. Let us attend a little to the powers and qualities by which it acts its part in this fystem of beings. We all admire its pure transparency in a fpring; the level and polished surface with which it reslects objects that are on the banks of a lake; the mobility with which it runs along the channel of a brook, and the incessant motion of its waves in a stormy sea. But, when viewed with a philosophical eye, it ap-pears much more an object of admiration. The same water, which, under its usual form, is such a principal beauty in the scene of nature, is employed in her most extensive operations, and is necessary to the formation of all her productions. It penetrates the interior parts of the earth, and appears to affilt in the production of various minerals, stones, and earths, found there, by bringing their different ingredients together, and applying them to one another properly, that they may concretc. We know it arises in vapours from the surface of the ocean, to form the clouds, and to descend again in rain upon the dry land, and give origin to springs, rivers, and lakes; or, upon proper occasions, to form deep snow, which protects the ground and vegetables from the intense and mortal cold to which some parts of the world are exposed; and, after it has performed this useful office, it readily yields to the heat of fummer, and returns to a flate in which it ferves the same purposes as rain. By its fluidity and tenuity, it penetrates the foil, and the feeds of plants which that foil contains. These it causes to swell and germinate into plants, which depend on water for support. At passes with freedom and ease through all their minutest tubes and vellels, and carries with it materials necessary for nourishment and growth. or changes its appearance fo as to become part of the plant. There is

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ab plant or vegetable substance, that does not contain in its composition a large quantity of water, easily separable from it. The hardest woods contain a great deal. The softer and more succellent parts of segetables are almost totally composed of it. Even the oils and resnous substances can be resolved in part into water. It is plainly as necessary to the animals, and is found to be as copious an ingredient in the composition

of their bodies, and of all the different parts of them.

. These are the numerous and extensive uses of this beautiful element. But, in this succession of forms and operations which it undergoes, you will perceive that it is fet in motion, and adapted to these ends, by the nice adjustment and gentle viciflitudes of heat and cold, which attend the returns of day and night, and fummer and winter; and that even the form, under which it and the other elements play their parts, depends on the limited action of heat. Were our heat to be diminished, and to continue diminished, to a degree not very far below the ordinary temperature, the water would lose its fluidity, and affume the form of a folid hard body, totally unfit for the numerous purposes which it serves at present. And, if the diminution of heat were to go still farther, the air itself would lose its elasticity, and would be frozen to a folid useless matter like the water; and thus all nature would become a lifeless, filent, and difmal ruin. Such being the important part allotted to water, in the magnificent feries of natural operations, in confequence of the qualities communicated to it by heat, all* its properties become interesting objects of contemplation to a sensible That peculiarity, by which the expansion and contraction of water by heat is diffinguished from the same effect on other substances, I mean its irregularity between 32° and 40° of Fahrenheit, naturally attracts attention. Even this feemingly trifling distinction has been shewn by Count Rumford to have a mighty effect in rendering our habitation more comfortable.

On the other hand, were the heat which at prefent cherishes and enlivens this globe, allowed to increase beyond the bounds at prefent prescribed to it; beside the destruction of all animal and vegetable life, which would be the immediate and inevitable consequence, the water would lose its present form, and assume that of an elastic vapour like air; the solid parts of the globe would be melted and consounded together, or mixed with the air and water in smoke and vapour; and nature would return to the original chaos. Vol. I. p. 245—247.

Of the convertation style, in which these lectures are for the most part written, we may remark, that although it usually possesses the advantages of plainness and sluency; yet, being adapted to the tones of the voice, it is very apt, when read over by a third person, to be desicient in perspicuity; and being less premeditated, it is scarcely ever equal in precision to a good written style. Its want of elegance is a desect of much less consequence; and these circumstances must conspire to impair the effect.

of this work, unless the occasion of its composition be kept in view.

As a system of chemical instruction, the lectures of Dr Black poffess very peculiar merits. Although they are, in many important respects, of necessity far behind the more recent systematical works upon this subject, they may fairly be admitted to contain the most accessible store of information which persons ignorant of the science can at present command. They are delivered, as much as possible, in the analytical mode. They take for granted no previous acquaintance with science in the learner; and they require, lefs than any work which we know, the affiftance of apparatus. Dr Black's manner of introducing the newly discovered substances, has, indeed, no great appearance of fystematic arrangement; but it should be remembered, that an elementary treatife has other objects in view, than the attainment of that fair outlide which forms the chief attraction of philosophical fystems. After a person, wholly ignorant of science, has studied chemistry in these volumes, he may have occasion for some fuch work as Lavoisier or Fourcroy, in order to digest and arrange the knowledge he has picked up. But we believe every one, in the least conversant with the matter, will admit the impracticability of initiating an ignorant person into the science, merely by the affiltance of those elegant and curiously systematic authors. It is true, we have fometimes felt inclined, in reading this work, to suspect Dr Black of too great contempt for the synthetic form of instruction. Upon this important point, however, his own arguments, as he delivered them in conversation with Dr Hutton and Mr Robifon, have been preferred; and we very willingly transcribe them, as containing a full and plain statement of the principles on which the whole course was constructed. Mr Robifon had expressed a very favourable opinion of Lavoisier's sketch of a scientific arrangement, and had alluded to the happy train of fynthetic deduction, which it enabled that philosopher to carry through the whole chemical history of bodies-

"This," faid Dr Black, " is the very thing I dislike it for. Chemistry is not yet a science. We are very far from the knowledge of first principles. We should avoid every thing that has the pretensions of a sull system. The whole of chemical science should, as yet, be analytical, like Newton's Optics; and we should obtain the connecting principle, in the form of a general law, at the very end of our induction, as the reward of our labour. You blamed, and, in my opinion, justly, De La Grange's Mechanique Analytique, for being the very opposite to a real analytical process;—for adopting as the sundamental proposition, as a first principle, a theorem which in fact is nothing more than

than a fagacious observation of an universal sact, discoverable indeed in every mechanical phenomenon; but still not a principle, but the mathematical and not the physical result of all our inductions. This is not a fundamental theorem, fit for instructing a novice in the science,

but for adepts alone. The case is the same in chemistry.

" But this is not the greatest fault in the arrangement which sets out from the constitution of the atmosphere. In order to get the proofs on which the validity of this first principle must entirely rest, we must fall to work with a number of complex, very complex substances, of which we know nothing, and whose modes of action are among the most mysterious things in chemistry; and the conclusions which we must draw, require a fleadiness and contention of thought which very few polles,-which a beginner in philosophical invelligation cannot possibly possess. It is by no means fair to appeal to a Lavoisier, a Cavendish, or a Berthollet, or other great chemist, for the clearness of the evidence. They are not the proper judges. Lay it before a fenfible metallurgist, ignorant of chemistry. Ask this man whether he sees the incontrovertible force of the proof. When I take the matter in this light, I affirm, that, even to a philosopher, the proofs of the fundamental propositions which have been acquiefced in by the authors of this arrangement, are very scanty, very slight, and very refined. This is a fault in a systempublished for the instruction of the ignorant; and, in the present day, it is a very great fault. There is just now a rage for system,-for complete fystems. We have got such a high conceit of our knowledge, that we cannot be pleafed with a fyllem which acknowledges any imperfection: It must not leave one open link: It must not leave any thing unexplained. And I fee it always happen, that if the applicatron of a fystem to the explanation of phenomena be very comprehenfive, leaving no blanks, and if the explanation have some feasibility, this catches the fancy,-it dazzles the understanding. Nay, we think it impossible that a principle that is false can tally with so many phenomena. This feeming coincidence is confidered as a proof of its validity; and we are no longer folicitous about the direct proofs adduced in the I have often heard such arguments for what I knew to be great nonfenfe. This kind of authority accruing to a theory from its specious and extensive application to phenomena, is always bad; and, with mere beginners in philosophy, it is doing them an irreparable hurt. It nourishes that itch for theory; and it makes them unfolicitous about the first foundations of it; -thus it forms in their minds the worst of all philosophical habits.

"I am resolved to go on in a very different way. I subscribe to almost all Mr Lavoisier's doctrines; and I will teach them all. And I affirm that I shall teach them with an impression of their truth which his method can never make. My students shall get all these doctrines piecemeal;—every one of them by steps which shall be quite easy and consident, because they shall be acquainted with every substance before

I employ its phenomena as proofs. Each of Mr Lavoisier's doctrines shall arise in course, as a small and obvious addition to the properties of some substance already known. Then I shall carry the student back, and shew him that the influence of our new discovery extends also to those substances which we had been considering before. Thus, all the doctrines will be had easily, familiarly, and with considence in their truth.

"I even think that this method will be more pleafant,—the novelties, or reformations, being, by this method, distributed over the whole course. And it will have yet another advantage: It will make the student acquainted with the chemistry of former years, which is far from being unworthy of the attention of a philosopher. Newton, Stahl, Margraaf, Cramer, Scheele, Bergmann, were geniuses not below the common level. But the person who learns chemistry by Lavoisier's scheme, may remain ignorant of all that was done by former chemists, and unable to read their excellent writings.

" I do not find that my old arrangement needs much change: Some I will make,—chiefly in the order in which I treat the inflammable fub-

stances and the metals."

We have already mentioned, in general terms, the great additional value which Mr Robifon's notes confer upon this publication. Befides a variety of curious and original chemical facts, they illuftrate, by feveral very important documents and acute reasonings, the history of Dr Black's discoveries. They answer the demand which was long ago made by Mr Nicolfon, that fome contemporary author should adjust the claims of the several philosophers who have borne a part in establishing the doctrine of latent heat. * They prove to a demonstration, that the undivided honour of this grand discovery is due to the author of these Lectures, whose amiable and dignified modesty prevented him from taking the neceffary steps to secure his own claims. The following statement of the attempts that have been made to rob him of his just fame, presents no very pleasing picture of the philosophical character: and we are almost inclined to hope, that Mr Robison, from whom our authority is derived, has been mistaken in his decisions. We feel it our duty, however, to give the circumstances to the public as he has detailed them; premiting that we are forry we can fee no immediate reasons for doubting his accuracy, while we rely most implicitly on his veracity and candour.

Dr Black never published his own account of the discovery, but he gave it every year after 1760, in his Lectures, to very numerous B 2 classes

^{*} Translation of Fourceoy, 27th Section of the valuable Note to Part 1. chap. V. § 2.

classes of students from various parts of Europe. It is proved, from his note-books, as well as from the concurring testimony of Messirs Robison and Watt, that he completed this discovery, as far as regards aqueous fluidity, between the years 1754 and 1757. We have already remarked, that he immediately extended it to the case of aëriform fluidity, even before he had actually performed the experiments by which the application is illustrated in detail. Among his pupils, Dr Black had many gentlemen of Geneva; particularly a M. Chaillet, in 1763, and a Dr Odier, who corresponded with M. De Luc, and communicated to our countryman feveral of that gentleman's meteorological observations. Swedish gentleman, of the name of Willems, or Willemson, (from Stockholm), was also much in the company of Dr Black and his friends, about the year 1768. He was wholly occupied with chemical studies. From none of these students was the flightest hint ever obtained, that a doctrine in any degree resembling that of latent heat, had been known in Geneva or Sweden.

While the communication between this country and those parts was thus constant, manuscript copies of Dr Black's lectures were in very general circulation among his students. They were even sold at a moderate price; and they contained accounts of his discoveries, if not altogether correct, at least abundantly copious for all the purposes of plagiarism. In 1770, a surreptitious publication of them was made by a London bookseller, under a general title; and this work gave a very distinct statement of the leading parts of the doctrine, with a full acknowledgement that Dr Black was the discoverer. In 1772, Mr Wilcke of Stockholm read a paper to the Royal Society of that city, in which the absorption of heat, by melting ice, is described; and in the same year, M. De Luc of Geneva, published his Recherches sur les Modifications de l'Atmosphere, in which the doctrine is, with much less accuracy, employed to explain some meteorological sacts.

Our readers will probably have anticipated the conclusion which this statement of circumstances forces us to draw,—that both the one and the other of these gentlemen, in all probability, owed their knowledge of the absorption of heat to the disfusion of Dr Black's discovery, through the medium of his Lectures. But the subsequent conduct of M. De Luc deserves our farther attention; and leaves as little doubt, with respect to his outpability, as can

exist upon a question of this fort.

About the year 1782, Dr Black was informed, that M. De Luc earnestly wished to become the editor of his observations upon latent heat, in order to secure Dr Black's claims to the discovery, from the attempts which were continually made by others to appropriate it. In consequence of repeated solicitations,

Dr Black gave his friend Mr Watt permission to communicate the leading points of his theory, and instructions to perform the experiments before M. De Luc. Neither the Doctor nor his friends had now the smallest anxiety upon the subject: they trusted in the promise of the Genevese philosopher, and expected to see in his great work, a full vindication of the claims which he had anxiously volunteered to defend. The publication at last arrived; and the mode of defence was somewhat novel. It consisted in a refutation of the claims urged by others, and an affertion, that the discovery of latent heat was entirely M. De Luc's own, Dr Black being only allowed the merit of having first attempted to measure the exact quantity of absorption in the particular case of aqueous fluidity. Mr Watt then wrote a letter to M. De Luc. containing a full explanation of Dr Black's discovery, and insisted that this should be published in the next volume of the work. appeared accordingly; but was accompanied only by an acknowledgement of the fatisfaction which M. De Luc received, from learning that his own fystem had so able a defender as Dr Black; a circumstance, he adds, which will give him new confidence in the doctrine.

From the foregoing statement, then, it appears, that M. De Luc published a work, containing a few crude ideas on the combination of heat; that he afterwards became better acquainted with the subject; that he formed a design to pass for the author of the doctrine, by completing his knowledge of the theory, and twisting his former vague statements into some kind of similarity; that, for this purpose, he applied to the man whom he knew to be the discoverer, and obtained, from him, a full account of the matter, under the pretext of defending his claim against others; that instead of fulfilling his promise, he only refuted the claims of those others, in order to bring forward his own; converted the documents which he had procured, to his own use; and concluded by politely laughing at the person whom he had thus defrauded. Such is the amount of the impression. made by Mr Robison's narrative, in the eighth note to the sirst volume. We with that some friend of the Genevese philosopher could step forward to clear him from so foul a charge. We are willing to hope, that his conduct may be explained in a way confiftent, at least, with the belief of his honesty: for who can helitate to pronounce, that the conduct here imputed to him, would have been deemed common imposture, if avarice, not vanity, had been the motive, and money, not fame, the end?

Mr Robiton has incorporated with the text of these Lectures, vol. II. p. 215, some very curious observations upon the conduct of Lavoiner and his associates, both towards Dr Black, and in

the establishment of their new chemical system. We rejoice that this subject is fairly brought before the public; and, on whichever fide the decision may finally be given, the history of the science, as well as the political history of the times, is likely to be illustrated by the discussion. That the French chemitis formed themselves into a junto for the propagation of their system; that, like all juntos, they delivered their doctrines with an authoritative tone, highly indecorous in matters of science; and that they even displayed somewhat of a spirit of periecution towards those who, from ancient habits, or from a predilection for their own new theories, refused their affant to the antiphlogistic doctrines, are facts which cannot be disputed. As little can it be denied, that the Parisian philosophers, animated, like all similar associations, by an esprit descorps, and mingling with this, very strong national partialities, arrogated to themselves the merit of every important discovery, nay, of almost all the detached observations, which had been made in any part of Europe, during the latter half of the eighteenth century. Now, Mr Robifon requires us to go a step farther, and to admit that the motive for changing the nomenclature may be found in the same corporation and national spirit, -in a delire to obliterate the remembrance of every thing which did not owe its origin to the affociated academicians of France, -in the same combination of innovating phrenzy, and puerile vanity, which produced the new calendar and metrology. We confess our disposition to question this, at least in the extent to which it is here pushed. No one can deny that the love of system had risen to a very great height in France, at the time of the innovations now alluded to; and it would appear, that as much of the calendar and metrology as is analogous to the nomenclature, owed its origin to this spirit of systematizing and classifying all the objects of our contemplation. Instead of blaming the new chemical language for its resemblance to the other changes, we are inclined to laugh at the pedantry of its authors, who could overlook the effential distinction between the two cases, soolishly think of giving new names to the ideas of most ordinary recurrence in common life, and attempt suddenly to alter the language and the habits of the vulgar, for the pleasure of an useless uniformity. It cannot be doubted, that political views mingled with this love of system in preparing the change of the calendar; perhaps those views were the chief inducement to its adoption. But it should be remembered, that mere innovation, however fudden, in matters purely speculative, is liable to no one of the manifold objections which are so decisive against all sudden political changes, however specious. And in this most effectial particular. particular, the two cases are exactly opposed to each other:—that the new nomenclature was adopted, after a series of the most beneficial and fundamental changes had been effected upon the whole science of chemistry; while nothing called for the new calendar, but the most destructive revolution which the violence and folly of mankind ever brought about. The dogmatical spirit, indeed, with which the new nomenclature, and, in general, the new system, was promulgated, had a tendency to obliterate much very valuable information, contained in the writings of the elder chemists: and we conceive, that the present publication, if it served no other end, would be highly important as a collection of things not to be met with in the works of the new school.

Mr Robison, among the observations to which we are now alluding, introduces a fact, upon the authority of Professor We give it to our readers as an Lichtenberg of Gottingen. amusing instance of that universal charlatanerie (the word cannot be translated by a people so destitute of the thing) which renders the French national character the least respectable of any in the civilized world. When the Parisian chemists, it seems, had finished their grand experiment on the composition of water. they held a fort of festival, at which Madam Lavoisier, in the habit of a priestess, burnt Stabl's Fundamenta on an altar, while folemn music played a requiem to the departed system. The German professor remarks, that if Newton had been capable of fuch a childish triumph over the vortices of Des Cartes, he could never be supposed the man who wrote the Principia; and Mr Robifon most justly adds, that if Newton or Black had so exulted over Des Cartes and Meyer, their countrymen would have concluded they were out of their fenfes.

The injustice of Lavoisier's behaviour to Dr Black, has perhaps been somewhat overrated by our author. He attempted, indeed, to conceal the very name of the discoverer of latent heat, in his papers upon that doctrine. This appears to have been his mode of proceeding on all fuch occasions. He seems to have thought, that the variation of an experiment, or the farther profecution of an idea, gave him a right of property in the whole subject. we can scarcely consider his well-known letter to Dr Black as very irrefragable evidence of duplicity, when we reflect on the unmeaning complimentary style which all Lavoisier's countrymen adopt upon every occasion. Dr Black was perhaps as little entitled to interpret the expressions of that letter into a prosound respect for his original genius, as he would be to infer affection from the ordinary beginning, or submission from the conclusion of the less verbole epistolary effusions of his own countrymen. We must refer our reader, however, to the 'Observations' themselves for a full statement

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of the facts upon which Mr Robison's remarks are founded. They certainly throw very considerable distinculties in the way of those who may be inclined to defend the French philo-

fophers.

The discussions which Mr Robison's Notes contain upon various points of modern chemistry, are of inestimable importance to the student of that science. They draw his attention towards the weak parts of that beautiful theory into which the French philosophers have expanded the conclusions fanctioned by experiment; and fuggest to him, at every step, the difference between the unsupported and the unquestionable positions of the fyitem. In point of fairness and ingenuity, these discussions are indeed superior to any with which we are acquainted. new theory has never yet been treated with fo much candour and impartiality. Mr Robison is, in sact, only an adversary to the doctrines which are not warranted by induction, or are inconfistent with known facts; and we shall now offer a few observations upon those doctrines, not as a specimen of what our author has given, but as a caution to our readers against that implicit confidence in the universal truth of the antiphlogistic theory, which is derived from an unphilosphical carelessness about the facts, and a predetermination to learn the system fynthetically.

Lavoisier and his followers maintain, that the light and heat extricated during the combustion of inflammable bodies, come entirely from the oxygenous gas. Now, to pass over the very weighty objections arising from the deflagration of nitrous falts, objections which have only been got rid of by the most gratuitous explanations, how does it happen that the union of many inflammable bodies, as fulphur and iron, fulphur and lead, &c. produces an ignition (i. e. an emission of light and heat) as violent as the union of the same inflammable bodies with oxygen? Is it consistent with the most obvious principles of induction, to attribute the light produced in cases of combustion entirely to the oxygenous gas, when the same bodies are sound, in cases of union without that gas, to give out such quantities of light? Light, indeed, attracts oxygen from bodies, and contributes to give it the gaseous form. the union of light with inflammable bodies is a fact fully as unquestionable, and entitles us as positively to conclude, that part, at least, of the light emitted in combustion comes from them.

Besides, various instances may be given of bodies, confessedly incapable of forming any union with oxygen, giving out light, when heated to a certain point. Salts, and earths, and combinations of the two, as glass, are easily made red, and white hot, without any oxydation, or any change whatever of

their

their properties, except the expulsion of moisture, and other volatile ingredients in their composition. Other bodies, capable of uniting with oxygen at a high temperature, appear capable of being ignited by a lower degree of heat. Thus linen cloth, when exposed to a heat somewhat higher than that of boiling water, seems, in the dark, to be covered with a blue lambent slame, and yet, when examined, shews no symptom whatever of oxygenation; for it is not in the slightest degree decomposed; and there is no instance of such heterogeneous bodies being oxydated entire.

How does it happen, that a body, admitted to be acid, should contain no oxygen? The Prussic acid is this body. And how comes it, that water, which is so highly oxygenated, has no properties of an acid? To say, as the followers of Lavoisier have done, that hydrogen is not an acidisable base, is exactly

to state the difficulty in another form of words.

How is the deflagration of water, in the following experiment, accounted for, upon any principle in the new theory? If fulphutic acid and oxymuriate, either of potash or foda, rendered as dry as possible, are mixed together, a red and suming liquor is formed, having somewhat of a nitrous smell, but containing no nitrous acid or nitrous gas. Let a drop of water be projected upon this liquor while the red colour remains, it instantly deslagrates, with a slight explosion. This explains the experiment of triturating sulphur with oxymuriates, and of the explosions sometimes found to attend the mixture of sulphuric acid with those salts, when in a moist state. But how is the water first decomposed, and then recompounded? We can find no explanation of this, even in the doctrine of predisposing assimities, invented for the purpose of overcoming all dissipations.

When a certain degree of heat, without light, is applied to many inflammable bodies, they are vaporized, without oxygenation, decomposition, or slame. Apply a lower temperature, with light, and the vapour burns. Yet, what effect should the prefence of light produce, according to the theory of Lavoisier?

A multitude of other facts might be mentioned, all tending to show how unfounded that confidence is which the followers of the new chemistry have reposed in the universality of its powers of explanation. Mr Robison, who states a variety of such facts, acquits Lavoisier of the charge of an unphilosophical readiness to generalize, which has been brought against his followers. But it must be acknowledged, that Lavoisier himself was too fond of a beautiful theory—a system which explained every thing—to observe with sufficient strictness the rules of analytical investigation; and his system of chemistry seems liable, even in the last

last form which he gave it, to all those judicious and philosophical criticisms which the first sketch of it called forth from Dr Black.

We cannot conclude these very general and desultory resections, without again expressing our obligations to Mr Robison for the high intellectual treat which this publication has afforded us. If any thing could render the present more acceptable, it would be the addition of an index, or a sull table of contents.

ART. II. Le Malheur et La Pitié: Poème, en quatre Chants. Par M. l'Abbé de Lille, un des Quarante de l'Academie Françoise. Publié par M. de Mervé. Dulau, Londres, 4to, 1803.

La Pitié: Poeme, en quatre Chants. Par Jacques de Lille. Paris, 1803.

THERE is no living author, we believe, whose works have attained so extensive and so durable a celebrity as those of M. de Lille. It is now upwards of twenty years since the poem of Les Jardins' began to be read out of France; and, in the course of that time, it has been translated into almost all the languages of Europe, and been made the subject of criticism and imitation from Warsaw to Naples. A reputation that prevails so universally, and is retained so long, must necessarily be merited; and it would not only be presumptuous, but absurd, to call in question the reality of those excellences, to which the whole European world has borne so unequivocal a testimony. We may be permitted, however, to inquire a little into the peculiar nature of those merits which have met with so general approbation; and to consider, whether they are not attended with any characteristic desects.

It probably will not appear very flattering to a French writer, or to his French admirers, to fay, that he has extended his reputation, chiefly by abandoning his national peculiarities, and added materially to the beauty of his compositions by accommodating them to the taste of his neighbours. Yet such, it appears to us, is undoubtedly the case with M. de Lille. He has recommended his works to general perusal, by departing, in a good measure, from the common poetical style of his countrymen; by adopting, freely, the beauties of the surrounding countries, and forming himself upon the model of all that appeared to him to be excellent in the poetry of modern Europe. French poetry, we are inclined to suspect, never had any very sincere admirers out of France. The general dissusion of the language of that people.

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the excellence of many of their writings, and their early proficiency in criticism and the belles lettres, had indeed given a certain currency to most of their domestic favourites, and spread into the circulation of Europe, whatever had received the stamp of Parisian approbation. But their reception was more owing to the authority by which they were recommended, than to their own powers of universal fascination. Men withed to admire the poems of those, whose prose was in general so delightful; and feldom had courage to fet up their own judgement in opposition to the sentence of a tribunal that was for the most part so enlightened. French poetry was read, therefore, and applauded over all Europe, without being fincerely admired. Some pretended to be enchanted with it, and others imagined that they were so; while all the men of letters spoke of it with deference, and condemned, without mercy, all that resembled it in the productions of their own countrymen. Although a poet, who had obtained reputation in France, was not fure, therefore, of pleafing all the rest of Europe, he came before his foreign readers with very confiderable advantages. He was certain of being patiently and favourably liftened to, and might affure himfelf, that many would applaud, and that the greater part would be willing to admire. As foon, therefore, as a French poet appeared, who was willing to lay afide the gandy costume of his country, and to accommodate himself to the taste of the other European nations, it was to be expected that his popularity would be at least equal to his merits. It was referved for M. de Lille to make this experiment; and we are really perfuaded, that a very great share of his reputation is to be ascribed to its success.

It is chiefly from the modern poets of England, that M. de Lille has borrowed the peculiarities of his manner. Besides the obvious and avowed imitations of Pope, Addison, Goldsmith, Cowper, and Darwin, that occur in the present publication, there is something in the whole temper and complexion of his compositions, that certainly does not belong to the genuine school of French poetry. The profe of Rouffeau and of Florian, may have afforded some instances of it; but if it had a poetical origin, it must have been borrowed from the poetry of England. The great vice of the French poets, was an affected magnificence of diction, and elevation of fentiment, that admitted of no relaxation, and pre-"cluded, in a great degree, all that was interesting or natural. The charm of easy and powerful expression was generally facrificed to the support of a certain sonorous and empty dignity; the picturesque effect of individual description was lost in cold generalities; character was effaced, by the prevalence of one glittering uniform; and high-founding fentiments were substituted for the language of nature and of passion. In this way, almost all the serious poetry of France had come to resemble the declamation of a hired pleader, in which no imitation of nature was so much as attempted; but all kinds of ressections and antitheses were thrown together in a style of affected passion, and false elevation. Every English reader, we apprehend, must have felt how little painting there is in the poetry of France, and how much more it deals in thoughts than in images. It is full of reasoning and ingenuity, and abounds in all the graces of posite and elegant expression; but there is little that comes distinctly forward to the imagination or the heart; and we are never tempted, for a moment, to believe

in the inspiration of the author.

M. de Lille has corrected a great number of these defects, and divested the poetry of his country of a great deal of that artificial statelieness which was so fatal to its pathetic effect. Instead of vague and lofty declamation, he has prefented his readers with minute and faithful descriptions of all that was interesting in his fubjects; and has impressed them with the feelings he was defirous of communicating, not by running over all the verbs and interjections that were supposed to denote them, but by placing before their eyes a living picture of the fituations in which they must arise. In another particular, too, M. de Lille may be confidered as an innovator in French poetry, and a follower of the English writers. He is the first, we believe, in that country, who has fucceeded in embellishing his compositions with representations of rustic scenery, and rustic virtues and occupations. His predecessors spoke, indeed, of groves and fountains, and paraded their muses, as of old, among thickets and upon lawns; but they spoke of them as they did of the tygers and lions which were found in their company in the writers of antiquity, and neither pretended to detain their readers among them, nor to delineare them with the fulness and precision of realities. M. de Lille has made them familiar, however, with cottages and farms, and rendered current in verse, the whole phraseology of planting and enclosing. He has dwelt, with great feeling and effect, upon the contemplative and innocent pleasures that, a rural situation may afford, and has contrived to describe them in language so pure and so elegant, that even the Parisians have perused them without derision or disgust. He has not only ventured to speak of the country, but has had the courage to take an interest in sits inhabitaties. The older French poets were utterly unacquainted with cottagers and husbandmen. Their only rustic personages were shepherds and shepherdesses, who asked for nothing but lympathy, and laboured at nothing but finging. M. de Lille has introduced the real peafant and labourer to the acquaintance of his *

his readers; has represented their occupations, their pleasures, and their virtues; and has solicited relief for their sufferings, and respect for their services. All this is familiar to English poetry; but it was new to that of France.

M. de Lille, finally, is a much greater philanthropist than, any of his predecessors we remember; and betrays, throughout, a fort of sentimental tenderness, and delicacy of feeling, that did not enter before into our conception of a French poet. His morality is perfectly pure; and there is not a page in his writings, in which he does not labour to enforce it. There is no poetry, with which we are acquainted indeed, that is so uniformly and zealously moral.

But though, in these and some other particulars, M. de Lille bears a much greater refemblance to the poets of England, than to those of his own country, we must not imagine, by any means, that he has entirely renounced his national tafte, or conducted himself in every thing according to our notions of propriety. examining more minutely the structure of the poem before us, we shall, have occasion to point out several passages, and turns of expression, that are certainly very foreign to our habits of composition. Nor are we, on the other hand, to conceive that M. de Lille is a writer of a warm and enthuliastic imagination, who has been hurried into a difregard of his national models, by the impulse of a bold and creative imagination, or from any ardour of temperament that disdained the control of authority. He is, in truth, a great deal more distinguished for correctness and delicacy of tafte, than for original or inventive genius; and, while he has done us the honour of preferring our authors to his own, he has not copied any thing that could not be justified by classical usage, or the most rigorous canons of criticism. He has prudently abstained, therefore, from attempting to imitate those higher graces of composition, which no imitator is ever permitted to attain; and has confined himself to those accomplishments of fine writing that may always be reached by the union of elegant tafte and diligent application. Although most of his writings, therefore, recal to us the general manner of English poetry, we shall be but feldom reminded of the loftier flights of Milton, the luxuriant tenderness of Thomson, or the fairy fancy and magical facility of Shakespere. We shall find more of the pointed polish and elaborate elegance of Pope, the dignified and correct tenderness of Goldsmith, and the dazzling amplifications of Darwin. de Lille, in short, is a refined, studied, polite, and accomplished writer, who never forgets himself in the ardour of composition, and feldom lets the reader forget him; who culls out the nicest phrases, and most unexceptionable images; and oftener reminds us that the description is beautiful, than he imposes upon us with the belief of its reality. He belongs to that class of poets that may be said to be of secondary formation, and that could not have existed, if a hardier race had not existed before them. He does not wander in the pathless places of Parnassus, nor gather slowers where no poetical foot had ever trodden before him. He has the praise of judicious selection, artful disposition, and dignished imitation. He has reached the eminence upon which he stands, by following with attention the footsteps of those who have mounted still higher. He has become a poet by reading and patient discipline; and probably could not have written ' les Jardins,'

if he had not begun with a translation of Virgil.

The subject of M. de Lille's poems do not naturally carry him into the higher regions of poetry, and he does not feek for occasions of elevation. The art of laying out pleasure-grounds, and of passing one's time agreeably in the country, might be discussed, no doubt, without trespalling on the provinces of the Epic or the Tragic writer; but admitted, at the same time, of a great deal of pathetic imagery, and a great variety of embellishment. It would be improper to enter upon any particular criticism of these poems, in this place; but there is one remark fuggested by them, which applies so obviously to the general character of M. de Lille's genius, that no apology can be necessary for its insertion. The greater part of the pleafure derived from poetical representations of rustic scenery and occupations, confifts in a pleafing illusion of the imagination, that carries us back to the golden age of the poets, and foothes us into a temporary forgetfulnels of all the vice and the artifice, the cares and perplexities of real life. There is some period in every man's life, in which he has funcied that happiness and innocence were to be found among cottages and pastures, and-defired to retire from the buftle and corruption of the world, to fome elegant and simple feclusion; and, as often as spleen or disappointment turn back his thoughts to this vision of his 'childhood, the diffipation and constraint of a city life always present themselves as objects of scorn and detestation. Whatever tends, therefore, to recal our thoughts to those incongruous objects, is misplaced in such a poem; it dispels the illusion, by the help of which alone, fuch themes are capable of pleafing, and distracts the imagination from the train of images that engroffed it. Now, this fault, which is not chargeable either upon Virgil or Thomson, M. de Lille has certainly committed. He begins his encomium on a country life, with some critical remarks on the regulation of private theatres, and entertains his. readers with a long enumeration of pompous villas, and greatprinces that inhabit them. He is constantly interspersing sarcastic

and pointed reflections upon the distipated and luxurious, and has composed the greater part of his poem in such an epigrammatic and courtly style, as is altogether unsuitable to the subjects upon which he is employed. Although enamoured of rural objects and employments, he seems anxious to convince his courtly readers, that he is as familiar as they can be with the language and occupations of the polite world; and that, though he chooses to shew his sensibility to obscure and sentimental pleafures, he possesses all the urbanity and accomplishments of a gentlemen and a courtier. His whole style is infected with this peculiarity; he cannot avoid an ingenious turn, or a brilliant antithesis; and instead of the simple and enthusiastic votary of nature and virtue, he frequently appears like a sine gentleman paying compliments to the sylvan goddesses.

Upon the whole, we think that the genius of M. de Lille is rather of a pleasing, than a powerful character; and that the delicacy of his taste, and the elegance of his language, are a good deal more remarkable, than the force of his imagination, or the originality of his invention. He will be relished most, we conceive, by those who admire rather the art, than the nature of poetry; and though he will give delight to almost all who have been trained to the admiration of elegance, by the habitual study of fine writers, he will scarcely ever be found speaking in that universal language, by the use of which, Shakespere has found his way, from the closet of the student, into the workshops of our manusacturers, and the cottages of our peasantry. It is now proper, however, to leave those general observations upon the poetical character of the author, and to inquire how he has acquitted himself in the publication now before us.

There is fomething fingular in the history of this publication. M. de Lille emigrated from France foon after the beginning of the Revolution, and took refuge, several years ago, in England. There he composed that edition of the present poem, the title of which stands first at the head of this article, and sent the manuscript to be printed, under the care of his friend M. de Mervé. While the work was going through the press, however, in the beginning of the present year, the impaired state of his health, as we are informed, made him yield to the folicitations of the Confular cabinet, and confent to return to his native country. Soon after his establishment at Paris, and before the London booksellers had been able to complete the first publication, they were surprised to find, that an edition had been published in France, under the immediate inspection of the author; in which several passages that might have given effence to the new government, are suppressed, and.

and large additions are made, in a ftyle more courtly and ingratiating. We shall take notice of the most considerable of these variations, as we go along; only premifing, in this place, that the largest of the retrenched passages related to the atrocities that were perpetrated in the late invalion of Switzerland, and that the most remarkable addition consists in a congratulatory address to the French people, upon the re-establishment of their religion, and the restoration of peaceful pursuits. The praise and commiferation of the Royal family is retained, without any qualification. The London edition, it may be observed, contains, in the notes,

all the additions that have been made in that of Paris.

The plan of the poem, we cannot help thinking, is somewhat scholastic and formal. The subject is Pity—or the active principle of benevolence towards the diffressed: and, to illustrate the operations of this principle with the happiest poetical effect, the author has been able to bethink himself of no better plan, than to begin with describing the duties that are owing to the mistortunes of horses, dogs, and other domestic animals: then, by a cautious and gradual ascent, he proceeds to the miseries of slaves and hired servants; and at last arrives at the distresses of tellow-citizens, parents, and friends, with their corresponding sympathies, and appropriate degrees of compassion. This scale of missortune and pity occupies the first canto. The second treats of the 'Pity of Governments,' and has, for its subject, the case of debtors, convicts, and all manner of fick and unhappy persons, in public hospitals, prisons, or garrisons. The two last cantos are confecrated to the miseries of the Revolution; the third containing a detail of the objects of pity, during the reign of terror, among whom the Royal fufferers hold the most distinguished place; and the fourth treating of those particular cases of revolutionary distress, that arose from the confiscation of property, and the expatriation of the individual. In the adjustment of this plan, there is certainly no great artifice of method: the parts do not naturally fuggest each other, nor are they so appropriated to their places, as not to be interchanged without obvious disadvantage. however, is partly the fault of the subject: a poem upon pity must necessarily consist of a series of pictures and illustrations; and the author can only be blamed for having selected them injudiciously, or for having subjected them to a fantastic and unnatural arrangement.

The fire canto is almost entirely engaged in the most hopeless common-places of poetry. Upon the subject of cruelty to animals, the fage of Samos is brought in, with his usual cortege of lowing oxen, and bleating freep; and the oration which Thomson imitated from Ovid, is here very elegantly translated from

Thomson.

Thomson. The iniquity of horse-racing is exposed in a very long homily, and the abominations of the slave-trade are detailed in the accustomed manner. There is some magnificent versification in all this; but there are also many-passages, which, to an English ear at least, appear extremely tame and awkward. The subject of animal misery is announced, for instance, in these lines, which we really supposed at first to relate to the peasantry.

Vous donc, foyez d'abord le fujet de mes chants,

O vous, qui fécondez, ou qui peuplez nos champs! ' p. 5. There is fomething miferably unfuccessful, and almost ridiculous, in the following attempt to give great interest and energy to a well known anecdote.

'Tel ne fut point Hogart: sa main compatissante
Traça des animaux l'histoire attendrissante.
De la, ce noble élan, ces admirables mots
D'une âme généreuse et sensible à leurs maux,
Qui, voyant des coursiers torturés par leur maître,
S'écrie: "O cœur barbare, homme dur, qui peut-être
"Au sein de ton ami plongerois le poignard,
"Tu n'as donc jamais vu les peintures d'Hogart!" p. 9.

The transition to the horrors of the flave-trade, is made in this intolerable couplet.

Tairai-je ces enfans de la rive Africaine
Qui cultivent pour nous la terre Américaine?' p. 14.

One of the most striking instances of a taste that is certainly foreign, and, we are almost persuaded, is also false, occurs in the beginning of the story of Fidelia, which M. de Lille has versissed from one of the papers of the Spectator, with great elegance and great exactness. Addison had called his heroine a beautiful young woman, and had said that she was beloved by a young man of great merit. The French academician thus improves these simple expressions:

'Au ciscau de Scopas, même au pinceau d'Apelle
La Beauté que je chante cût servi de modèle.
Un amant l'adoroit, tel que le Dieu d'amour
L'eût choisi pour charmer les Nymphes de sa cour.' p. 17.

In a lamentation over his own blindness, the general idea of which is evidently borrowed from Milton, M. de Lille goes out of his way to make the following unnecessary attack on the political principles of that great man:

' Je n'eus ni ses talens, ni sa lâche foiblesse:
Admirable poëte et mauvais citoyen,
Il outragea son maître, et j'ai chanté le mien.' p. 20.

We cannot help wishing, that, among the passages which are suppressed in the edition of Paris, M. de Lille had had the grace VOL. III. NO. 5.

to expunge this also. We do not know with what propriety the appellation of 'lache foiblesse' can be applied to the stern and unbending republicanism of Milton; but we are persuaded, that he would not have purchased the protection of his opponents by any weak compliances; and that he would never have suppressed or altered any passage in his immortal poem, merely because it might have given offence to the Royal centors of the day.

The canto ends with a pleafing, but fomewhat puerile flory, of the virtuous Mopfus, whose cottage was burned down, and the fensible Dormond, who fecretly contrived to build him another, fe

very like the old one, as to produce an amufing furprife.

· Ses murs, vicillis par l'art, offrent même coup d'œil; Semblable en est l'entrée, et semblable est le seuil. C'est leur même buffet, c'est leur modeste table ; Nombre égal d'animaux a peuplé leur étable. Et jusque dans leur cour, un nombre égal d'oiseaux Est perché sur les toits, ou nage dans les eaux. Seulement leur vieux coq, qu'avoient fauvé ses ailes, Ne reconnoissoit plus ses amantes nouvelles. '-

· De ses hochets perdus, son unique trésor, Seul, leur plus jeune enfant se désoloit encor; On apaife fes cris. Cependant la chaumiere A repris du travail l'activité première, Les roseaux avec art s'enlacent aux roseaux; J'entends tourner la roue et rouler les fuseaux.' p. 27. 28.

These lines are certainly beautiful; and the incidents, though somewhat too ingeniously imagined, must be allowed to be natu-

ral, and strictly in harmony with the whole design.

The Second canto is, on the whole, rather dull. There is nothing so easy, and nothing so tedious, as differentions on the miferies of captivity, war, fickness, and the other corporated plagues of human life. The picture of the prisoner is copied, or rather exactly translated, from Cowper's fine sketch of the Bastile: only the striking circumstance of his feeking to wear out the tedious time by counting the iron studs on his door in all directions, and beginning again when the calculation is completed, is omitted by the French poet, as too whimfical, and too little dignified, for his elaborate couplets. In return, however, he has added to the description of the English poet, by informing us, that ' the vault is the prisoner's sky, and the walls his horizon.' We have reason to be proud, we think, of the disserence in the national talte of the two writers.

M. de Lille is very poetically angry at the injuffice of those laws that condemn a debtor to imprisonment; and is for allowing maniacs to range among flowers and fountains, instead of shutting them up in folitary dungeons. He is eloquent, moreover, upon

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the establishment as Botanybay, and declaims against solitary confinement as a piece of unnecessary cruelty. The highest poetical talents would fearcely have felected for their theme fuch vulgar prejudices, as must be dissipated by the lowest degree of political information. The prison scenes are closed with a translation of Dr Darwin's panegyric upon the celebrated Howard, in which M. de Lille approaches nearer to his original than in any of his other imitations; yet there is fomething decidedly French in this claffical introduction-

• Qu'on ne me vante plus les malheurs vagabonds . De ce roi voyageur, père de Télémaque, p. 34. in the defeription of dungeons-

· Habités par la mort, et pavés d'offemens. ' and in the idea of a prisoner finding the embraces of his wife and children a pleafant exchange for his fetters.

In the description of the hospitals, there is a great deal of strong painting. The following lines, however, have too much of the tone of fatire for the place in which they occur.

· Là, le long de ces lits, où gémit le malheur, Victime des secours, plus que de la douleur, L'ignorance, en courant, fait sa ronde homicide, L'indifférence observe, et le hasard décide.' P. 37.

In this canto, about 150 verses, descriptive of the outrages that were perpetrated by the French armies in their last invasion of Switzerland, are suppressed in the Paris edition: and a part of the description is applied to the case of civil war in general. Though we by no means approve of the motive which has dictated this retrenchment, we cannot fay that the poem has fuffered any great injury from it. The lines in question contained an overloaded and dissuse description of burning and butchery, Echo repeating groans, and Pity converted into revenge. There is one couplet we should have been forry to lose, describing that inglorious selfishness,

 Qui, façonnant au joug les peuples abattus, Sans ofer les forfaits, affoupit les vertus.

Of the lines that have been retained and applied to a less offensive subject, the following are among the most powerful, and afford a good specimen of that elaborate and artificial style in which M. de Lille feeks for force in antithefis, and fublimity in exaggeration.

 De la vierge à genoux leur rage ouvre les flancs, S'irrite sans obstacle, égorge sans colère, Et, s'il n'est teint de sang, l'or ne sauroit lui plaire. Tout ce qui du passé gardoit le souvenir,

Tout ce qui promettoit un bonheur à venir,

Tout

Tout ce qui du présent accroît la jouissance, Les monumens des arts, ceux de la bienfaisance, Tout subit seur sureur: s'il offre un trait humain, L'airain trouve un bourreau, le marbre un assassin.' p. 47.

The canto ends with the war of La Vendée, and an exhortation to peace and reconciliation, which the author puts into the

mouth of Pity.

The Third canto, which relates entirely to the famous events of the Revolution, treats, of course, of a subject with which every one is already familiar and difgusted. The atrocities of the days of proteclation, and the circumstances of horror which accompartied the fate of many eminent individuals, can no longer be read with curiofity, and could fearcely ever be read with pleafure. They have been founded fo long in the ears of all Europe, that few people can now be found to liften to them; and we doubt if even the charm of M. de Lille's verification will carry many readers through the uniform and difgutting details with which this part of his poem is charged. We have the delations and dediffruit, and the noyades, and the fufilades, and even the civic marriages, (which he calls, very fimply, 'hymens qu'on abhorre,') and all the terrible etcatera of revolutionary enormities, detailed and described at full length in this canto. We are told, moreover, that Robespierre and Danton have at last gone ' to terrify the devils with their horrible countenances in hell;' and immediately after, the poet comes with a violent complaint against Nature, for abetting all those crimes; and is very angry with the fire for burning the houses of the loyalists, and with the earth for being a receiver of their dead bodies. We infert this extraordinary passage.

• Que dis-je? la nature, ô comble de nos maux! De tous ses élémens seconde nos bourreaux. Dans leurs cachots impurs l'air insecte la vie; Le seu dans les hameaux promène l'incendie; Et la terre complice, en ses avides slaucs, Recèle par milliers les cadavres sanglans. ' p. 63.

This may be thought very fine in M. de Lille; but we are certain that it would appear absolutely childish and absurd in any

English writer.

After going over the melancholy fate of M. de Brissac, Madde Lambelle, and some other victims of less note, the author comes to the misfortunes of the Royal family. It is impossible to to read, in any narrative, the history of the outrages and barbarity with which the unfortunate Louis was treated, without feeling compassion for his sufferings, and indignation towards his perfecutors. But we are not sure if an inflated rhetorical representation, such as that of M. de Lille, is not, upon the whole, less impressive

impressive than a plain prose narrative. The latter has more the air of truth and authenticity; and where the reality is so tragically interesting, there is no room for fiction or eloquence to display their illusions. Besides, the catastrophe is so well known, and presses so constantly upon the mind, that the detail of minor fufferings produces scarcely any effect, and excites but a small share of our sympathy. When Mr Burke published his Reslections, the account of the return from Verfailles produced an extraordinary interest; but after the blood of Louis and his confort had flowed upon a public scaffold, we do not think that it was very judicious in M. de Lille to dwell upon it at so great length in this canto. The whole progress of the King's trial, deposition, condemnation, and death, are then narrated in the fame minute declamatory style; and a passage of at least 200 lines, reads exactly like a versification of fome turgid and fonorous funeral oration. In one place he breaks out into this dignified exclamation,

> Noirs esprits des Enfers, quel conseil ténébreux Inventa, dites-moi, ces traitemens affreux? p. 74.

At another stage of the proceeding, it is impossible, we are told, that any thing can be worse; and Pity is exhorted to dry her tears. Then something worse is announced, and the poet will not believe it; and yields at length, with great agitation, to the dreadful certainty! In a story so well known, this is very injudicious trisling. When he comes to the execution, he breaks off in this cold and affected manner:

6 Ces tableaux font horreur : et je peins la Pitié! ' p. 77.

And then he concludes in the very style of a common-place preacher, by recollecting that the Royal Martyr is no object of pity; and by telling the angels to take their lyres of gold, and receive him with triumphal palms! This we cannot help thinking a little profane; but the following lines, in which he lets himself down so familiarly to his mortal subject, appear to us to be still worse.

Mais, d'où vient tout à coup que mon tœur se resserre? Hélas! il faut des cieux revenir sur la terre! Louis en vain assisse aux célestes concerts;

Les cieux sont imparfaits, son épouse est aux fers. ' p. 7

The successive immolation of the Queen, Madame Elisabeth, and the Dauphin, is then narrated in the same style, and with equal heaviness and labour of composition. The canto terminates with an encomium on the heroic fortitude with which a multitude of beautiful women encountered a public death in that period of distraction. Of those lovely victims, he says, with more prettiness than pathos,

C 3 Près

Près d'elles du trépas l'aspect est moins affreux.
 La beauté, sur la mort exerçant son empire,
 L'adoucit d'un regard, l'embellit d'un sourire.
 p. 90.

The three virgins of Verdun, who were facrificed together, are then celebrated in the fame manner; and the canto is closed with the following proposal for commemorating their fate, by an annual festival in their honour. M. de Lille, who really does not succeed at all in tragical descriptions and scenes of blood, resumes all his powers of fascination, in sketching out the pastoral imagery and rural innocence of this romantic solemnity. The following verses, which are in the true taste of 'les Jardins,' came upon us with a refreshing sweetness after wading through so many oceans of blood.

Mais s'il est quelque lieu, quelques vallons déserts Epargnés des tyrans, ignorés des pervers, Là, je veux qu'on célèbre une sête touchante, Aimable comme vous, comme vous innocente. De là j'écarterai les images de deuil, Là, ce sexe charmant, dont vous êtes l'orgueil, Dans la jeune saison reviendra chaque année, Consoler par ses chants votre ombre infortunée.

"Salut, objets touchans," diront-elles en chœur,

"Salut, de notre sexe irréparable honneur!

Le temps, qui rajeunit et vicillit la nature,

Ramène les zéphirs, les sleurs et la verdure;

- Mais les ans dans leur cours ne rameneront pas
 Une vertu si rare unie à tant d'appas,
- Espoir de vos parens, ornement de votre áge,
 Vous eûtes beauté, vous eûtes le courage,
- "Vous vites sans estroi le sanglant tribunal,
 "Vos fronts n'ont point pâli sous le couteau satal."
 "Adieu: quand le printemps reprendra ses guirlandes,
- " Nous reviendrons encor vous porter nos offrandes;

44 Aujourd'hui recevez ces dons consolateurs,

Nos hymnes, nos regrets, nos larmes et nos fleurs!" p. 92. 93-

The last canto is, at least in the London edition, very much in the style of the preceding one, and might have formed a continuation of it, indeed, if it would not have been too long. It proceeds in a style, which we are rather surprised that the Confular censors have not corrected, to enlarge upon the evils that France has suffered by the destruction of her royalty, and to expatiate upon the absurd appearance that many of her new rulers make, in situations so opposite to their original. The state cociety appears, says he, very childishly, as much disordered as wood would do with its branches in the ground, and its roots in the sit. The unfortunate emigrants are then commemorated in

a passage, that has borrowed the greater part of its beauties from the Deserted Village, and are compared to the Israelites, during their captivity in Babylon: upon occasion of which simile, a very beautiful paraphrase of the 137th psalm is inserted. After this there occurs, in the London edition, a very long passage, crying out against the confiscation of property that took place, and asking the god Termes' what he thinks of those terrible doings. The poetical merit of these 150 lines is not great; but M. de Lille, when at Paris, probably repented him in a particular manner of the sollowing:

Dementir lâchement mes vers accusateurs.

"Tout changé," dit-on, " et le pouvoir répare
"La longue iniquité d'un régime barbare."

Sans doute: le François, malheureux dépouillé,
Peut rentrer sur un sol de carnage souillé,
Peut errer sur les murs habités par ses pères,
Voir ses blés moissonnés par des mains étrangères,
Et, par ses souvenirs déchiré de plus près,
Joindre à tant d'autres maux le tourment des regrets.
Ah! quel exil affreux égale ce supplice!

After this, there comes a very animated address to the kings and rulers of the world, in behalf of the emigrating royalifts. Though this is perhaps the best political passage in the poem, it is too long to be extracted. Our readers may judge of the style of it from the following verses:

Non, non: le temps n'est plus, où la soumission, D'un amour idolâtre heureuse illusion, Environnoit le trône: une raison hardie, De ce vieil univers nouvelle maladie, Calcule ses devoirs, et discute vos droits; Sous la pourpre avilie interroge les Rois, Désenchante l'esprit, et paralyse l'âme; Du seu chevaleresque éteint la noble slamme; De l'état social désordonne les rangs. ' p. 102-3.

At this period, the poet feems to have recollected that he was wandering a little from the proper subject of his poem; and to make amends, he suddenly bursts out into a new invocation to Pity, declares that no other subject is worthy of his muse, and copies two long passages from Virgil to show, in general, how much interest the language of compassion can give to a poetical composition. Having performed this evolution in honour of La Pitié, the poet wheels round again to his revolutionary differtation, and commemorates the hospitality of diverse princes and nations towards the unhappy emigrants who had implored their protection. The compliment to England is particularly full and flattering: we should be

be inclined to suspect that the following verses will not be very popular at Paris:

Tes lois font la raison; tes mœurs sont la sagesse, Tes semmes la beauté, leur discours la candeur, Leur maintien la décence, et leur teint la pudeur. Tu joins les fruits des arts aux dons de la fortune, Le tonnere de Mars au trident de Neptune. Tantôt, foulant aux pieds l'athée audacieux, C'est Minerve s'armant pour la cause des Dieux; Tantôt, sille de mers, belle, fraîche et séconde, C'est Vénus s'élevant de l'empire de l'onde.' p. 110.

After this, there is introduced a long romantic epifode, containing the adventures of an interesting emigrant, who, in his wanderings over the great deserts of the world, fortunately stumbles upon the retreat of another emigrant, who had established himself, like Robinson Crusoe (it is the author's own simile) with his wife and family in the solitary woods of America, and who detains his ancient Parisian friend to make their society more comfortable. There is some pretry landscape painting in this part of the work; but the story is spoiled by an attempt at too great resinement; and we could searcely help laughing, when we were stopped, in sollowing the course of this heart-sick exile, to be informed that he was a curious botanist, and that

De nombreux végétaux, dans fa courfe intrépide, Avoient déjà groffi fon porte-feuille avide.

A part of this episode, it seems, was written by M. de Lille entirely from his own invention: but he was afterwards delighted to find that such an incident had actually occurred, and modelled

the conclusion of it according to authentic information.

From this point, there is fearcely any refemblance between the London and the Paris editions. The former contains a long eulogium upon the army of Condé, and on the princes of the blood royal; an address to the author's ancient patron, le Duc d'Artois; and a caution to the emigrants, not to be tempted back to France by the infidious promifes of the new government. The French copy leaves all this out, and concludes with a congratulatory address on the restoration of civil order and religious rites, and on the return of security and peace after so long a tempest. In point of poetical beauty, we are forry to fay, that the latter edition appears to us to have the advantage. There are foune fine expressions of a loyal devotion, no doubt, in the address to the princes; but the whole passage is infected with so much pedantry, and is composed in a taste so decidedly French, that no English critic can be expected to show it much mercy. What can be faid, for instance, for such a cold scholastic conceit as the following? Qu'on

Qu'on ne me vante plus ce triple Gérion Dont trois àmes mouvoient la masse épouvantable: J'aime à voir, surpassant les récits de la fable, Un même esprit mouvoir trois héros à la fois. Condé, Bourbon, Enghien se sont d'autres Rocroys.

But the circumstance that gives a decided superiority to those verses in which M. de Lille must be admitted, we are afraid, to have recorded his own desertion from the cause of his patrons, is the singular adaptation of the subject to his peculiar powers of description. He is not formed by my means for recording deeds of blood, or scenes of terrible contention; but in the elegant and touching delineation of rustic scenery and innecent occupations, he is perhaps without a rival among the writers of modern Europe. We have no hesitation in saying, that the following verses upon the restoration of religion, which do not appear in the text of the London edition, are by far the most beautiful in the whole poem:

· Je les revois enfin, ces tribunaux, où Dieu Ecoute du remords l'attendrissant aveu : Ces vases du Baptame, où les chefs des familles ·Viennent purifier et leurs fils et leurs filles. Mime de vos clochers l'airain confolateur, Que pour un vil profit un bras profanateur Fit descendere à leurs pieds, remonté vers leur faite, Du patron du hameau proclame encor la fête. Il vous appelle encore aux chants religieux, Qui montent de la terre a la voûte des cieux ; Au facrifice auguste, à la fainte tribune, Ou l'orateur chrétien confole l'infortune; Demande encor des vœux pour les mortels fouffrans, Pour l'enfant nouveau-né, pour les vieillards mourans; Guide encor le berger, errant dans les campagne, Qu'attendent ses enfans et sa chère compagne, Qui, parmi les frimas, égaré dans la nuit, Bénit, en avançant, le son qui le conduit, Et, fur le coq doré, l'honneur de son village, Vers le toit paternel dirige son voyage. ' p. 124-5.

We may add the following charming description of a vernal festival in the country:

Et, des que Mai fourit, les agrestes peuplades Reprennent dans les champs leurs longues promenades. A peine de nos cours le chantre matinal, De cette grande séte a donné le signal, Femmes, cnfans, vieillards, rustique caravane, En foule ont déserté le château, la cabane. A la porte du temple, avec ordre rangé, En deux siles déjà le peuple est partagé,

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Enfin, paroît du lieu le curé respectable. Et du troupeau chéri le pasteur charitable. Lui-même il a réglé l'ordre de ce beau jour, La route, les repos, le départ, le retour. Ils partent : des zéphirs l'haleine printannière, Souffle, et vient se jouer dans leur riche bannière. De leurs aubes de lin, et de leurs blancs furplis, Le vent frais du matin fait voltiger les plis ; La chappe aux bosses d'or, la ceinture de soie, Dans les champs étonnés en pompe se déploie, Et, de la Piété, l'imposant appareil Vient s'embellir encore aux rayons du foleil. Ils marchent : l'aubépine a parfumé leur route ; On côtoie en chantant le fleuve, le ruisseau; Un nuage de fleurs pleut de chaque arbrisseau; Et leurs pieds, en gliffant fur la terre arrofce, En liquides rubis dispersent la rosée. On franchit les forêts, les taillis, les buiffons, Et la verte pelouse, et les jaunes moissons. Quelquefois, au sommet d'une haute colline, Qui fur les champs voifins avec orgueil demine, L'homme du ciel étend ses vénérables mains; Pour la grappe naissante et pour les jeunes grains, Il invoque le ciel. -O riant Chanonat! ô fortuné séjour! Je croirai voir encor ces beaux lieux, ce beau jour, Où, fier d'accompagner le faint pélerinage, Enfant, je me mélois aux enfans du village!' p. 125-9.

Upon the whole, we think this poem decidedly inferior, in point of interest and beauty, to either of M. de Lille's performances upon rural subjects. His diction and verification, indeed, are almost uniformly harmonious and elegant: but he wants simplicity and force for the higher departments of poetry, and commonly falls into a style of declaratory exaggeration and disorder, whenever he abandons his old and appropriate subjects. Les Jardins,' we have no doubt, will long be admired over all Europe: but M. de Lille must not expect to go down to posterity as the poet of the Revolution,

ART. III. Traité de Mineralogie. Par le Citoyen Hauy, eu Cinq Volumes dont un contient 86 Planches: à Paris, an 10, (1801.)

FROM its intimate dependance on chemistry, mineralogy has profited extensively by the recent discoveries in that science. The composition of minerals has been illustrated by ingenious and delicate analysis, and the number of simple substances has been increased by the discovery of new earths and new metals. The same

fame accuracy of refearch that has enlarged the number of components, has diminished the estimated number of compounded bodies, by proving the frivolity of many superficial distinctions which had been regarded as specific, and by establishing precise criteria of essential differences.

The advance and amplification of the science has necessarily rendered every systematic work obsolete. The efforts by which the strenuous mind of Linnæus endeavoured to pierce the darknefs in which mineralogy was previously enveloped, now appear ill directed; and though the fagacity of Cronstedt, and the acuteness of Wallerius, may continue to claim our admiration, he who would attempt to reconcile the modern discoveries with their fystems or arrangement, would find himself involved in the most inextricable confusion. Yet, since their time, almost all the systems of mineralogy which have iffued from the prefs have concurred in retaining the greater part of their defects, and contributed to perpetuate error by vicious arrangement and inaccurate description. The Germans have, for the most part, contented themselves with pillaging and mutilating the lectures of Werner; and the other nations of Europe have generally been fatisfied with doing into their respective languages the Tuetonic lucubra-By this transmutation, we cannot say that they have generally improved. Diffusion has become prolixity, obscurity unintelligible, the old blunders have been religiously retained, and an innumerable hoft of new abfurdities has been engendered.

A treatife on mineralogy, exhibiting a correct view of the prefent state of our knowledge, was therefore a most important defideratum in this department of science; which the present publication of M. Haiiy has done much to supply. His theory of crystallization has been in some degree previously communicated to the public by his papers in the fournal des Mines; and its singular ingenuity and utility must have been universally perceived. The same theory is now presented in the most complete form; enriched with every subordinate illustration; applied to the investigation and description of minerals with infinite dexterity; and combined with a judicious selection of all the mineralogical sacts which have been previously published, or that may have occurred to his own observation, or to his colleagues in the Eccle des Mines; from whose generous contributions, and industrious exertions, his volumes have derived additional value.

From these extensive investigations has resulted a treatise, in which mineralogy is exhibited at least in a new form, and a system is delivered, differing from all that have preceded it, in general arrangement, individual division, and nomenclature. Before we can determine, whether these extraordinary innovations are entitled

baffled.

entitled to our unqualified approbation, it is necessary to inquire, whether they were actually called for by the errors of the prevailing systems, and whether they furnish proper remedies for ac-

knowledged defects.

From the uncertainty and obscurity attending every infant fcience, the determination of the mineralogical species has always been a subject of dispute. The operation of no general principle being recognifed, varieties have been wantonly conftituted into species from the most frivolous and superficial differences, and the most opposite and discordant substances have been violently united from fancied similitudes. Though the prodigious improvements of analytic chemistry have thrown a strong and steady light on some of the most obscure branches of mineralogy, its affiftance is not adequate to the determination of every ambiguous point; and chemistry itself is even yet too much in its infancy, for its decisions to be always considered as an authority from which there is no appeal. By the means of analysis, the combinations of earths and acids have been fully disclosed; the mixtures of metals, and the refults of their union with acids, gases, and sulphur, have been satisfactorily developed: but the combinations of earths with earths, yield refults nearly fimilar from fubstances of the most striking dissimilarity. In mineralogical character, and in the analysis of different specimens of the fame mineral, as far as other tests can determine its identity, a variety of composition has been detected no less mortifying than unexpected. Till the complicated operation of affinities is more perfectly understood, and we have learnt to correct by compenfation the errors they necessarily create, we must not implicitly rely on indications that may be fallacious. We must endeavour, therefore, to find some other criteria that may confirm the authority of analysis where its march is assured, and its results satisfactory, and may ferve as guides where its steps are faltering and irregular.

The precision of crystalline forms has not escaped the attention of mineralogists; and they have not been wanting in their endeavours to avail themselves of it in distinguishing species. Linnæus, who first engaged in this inquiry, was followed by Bergman, whose labours tended greatly to its advancement; but it was reserved for Romé de Lisle to enlarge the hitherto narrow limits of this branch of science, by estimating angles with precision, and deducing all crystals from the modification of a few primitive forms. Though often successful in explaining the origin of the most complex secondary forms, by means of the imaginary truncations and bevellings of a simple solid, the immente industry and great sagacity of this last inquirer were frequently

baffled, and he was reluctantly obliged to suppose that some minerals possessed more than one original form, from which their modifications were deduced. However necessary such a conclusion might appear, it was evidently inadmissible, without supposing a deviation from that uniformity which is invariably found in the works of nature; and even if the system of Romé de Liste had been rescued from this mortifying concession, it would still have been wholly unsit for the determination of minerals by their crystals, as a few simple solids would have been esteemed the common origin of numerous substances most effectially distinct.

It was first observed by the truly ingenious and scientific Mr Keir in his Chemical Dictionary, and afterwards repeated by Bergman in his Opuscula, that the fragments of calcureous spar were invariably rhomboidal. These philosophers, however, pushed their inquiry but little farther. About the fame time, though without being informed of their previous observations, the same fact occurred to M. Haüy. Upon his inquiring mind, it feems to have made a more powerful impression, and he immediately extended the investigation. He found that every variety of calcareous fpar yielded, on breaking, rhomboidal fragments, and was only divisible in directions parallel to the sites of these rhomboids; and that, from whichever of the diversified crystals of this fubstance the rhomboid was derived, its angles were invariably the fame. He found that fluate of lime yielded, by mechanical division, a nucleus which was invariably a regular octo-That from fulphuret of lead, he always obtained a cube; from fulphuret of zinc, a dodecahadron; and that from every crystal susceptible of mechanical division, a solid might be extracted that was common to all the crystallized varieties of that fubstance. In many cases, the division was performed with accuracy and facility; the furfaces of the folid obtained were even. and sometimes brilliant; parallel to its sides, it was again divifible with equal eafe; and folids perfectly fimilar were generated, till they became so small as to clude the observation of our senses; but every attempt to divide, except in directions parallel to the fides originally obtained, was ineffectual, or produced only an irregular fracture. He also found, that in many instances, where the attraction of aggregation was fo powerful as to defy his efforts to extract this nucleus perfect on every fide, it was still capable of being developed, in certain directions, with fufficient accuracy to enable him to detect its form, and appreciate its angles.

By a copious and direct induction, he was enabled at last to afcertain this important fact, that every mineral possesses a form, on which all its diversities of crystallization are dependent; since this

form.

form, and this only, can be extracted with equal facility from them all, however they may be difguised by apparent dissimilarity. The crystals of minerals not unfrequently presented this form; and all deviations from it appeared to have been produced by the operation of laws that regularly influenced the aggregation of the crystalline particles; since, after pushing division as far as our senses can follow its effects, we find the form of the solids obtained to be mathematically the same. M. Haiy, therefore, conceived himself authorised to consider this result as final, or ultimate, in relation to our faculties; and bestowed on the nucleus the denomination of the integral nuclecule.

When the form of the crystal is the same as that of the molecule, each crystal may be considered as an accumulation of molecules, arranged by some species of polarity. But though the external form of the crystal sometimes corresponds with that of the nucleus, it more frequently differs from it, and fometimes fo remarkably, that it appears impossible to devise any laws by the operation of which it could be obtained. Though the nature of such laws may remain for ever unknown, yet it is important to trace their effects, and to devise some mode of explaining their operation and refults, that may not be at variance with the first principles of the science it is intended to elucidate. Though the hypothefis of truncations readily explains almost any appearance, accommodates itself with wonderful flexibility to difficulties, and introduces confiderable facility into the expression of even the more complicated crystalline forms, it is obviously inadmissible in any fystem that aims at an approximation to truth; because it involves an idea of diminution and fubtraction, directly contrary to the most established principle of crystallization. It renders it neceffary to suppose, that the secondary forms of crystals are generated, by cutting large portions from the surface of a primitive folid. But crystallization never recedes. It produces the secondary forms, not by abitracting any portion of the nucleus, but by accumulating additional molecules on particular parts of it; and on this most important distinction is founded the explication which M. Haüy has devised.

If their arrangement continue undisturbed, additional molecules can only increase the magnitude of the folid. Each one will be deposited in order by the side of another, till their united numbers form a coat extending over one side of the crystal. But if the next coat of molecules, instead of covering the whole plane, leave round the edges the breadth of one molecule uncovered, there will then be placed on the primitive crystal a thin plane, somewhat less in dimensions than the one on which it is superimposed. Let the same law, which ordered this decrease, continue to operate.

rate, and another plane still less will be applied to the one already generated. Others will succeed, each gradually and symmetrically diminishing, till they terminate in a single molecule, forming the vertex of a pyramid, elevated, by the influence of this law of decrease, upon one of the planes of the original solid; and if the same law has operated on the other planes, each of them will be crowned with a similar pyramid.

Such would be the operation of a decrease, by one row of molecules on the edges of the planes. It may take place on the angles, instead of the edges. It is not confined to a decrease of one row of molecules only; for the decrease may take place, by two or three rows in breadth, and one in height; or by two or three in height, and one in breadth. More than one of these laws may operate at the same time, in modifying the same nucleus; and, after the operation of one has reached a certain extent, it may be suspended, and the secondary form of the crystal be completed by the action of another. In short, any, or all of these laws, may operate at the same time, or in succession, on the sides and angles of the same nucleus.

Let it not be objected to this theory, that the splendid polish with which the surfaces of crystals are frequently adorned, could never result from the steps with which the decrease of the molecules must furrow their sides. We must not force any analogy between the grossness of our masonry and the architecture of nature. The molecules, of which crystals are composed, are, to our senses, infinitely small; and the step, formed by the decrease of one, two, or three rows of molecules, must be to us imper-

ceptible.

Let it not be objected either that the admission of the laws of decrease is unphilosophical; because, from their variety, frem their partial operation, and the facility with which any, or all of them, are resorted to, they appear capable of deriving any pessible form from any conceivable nucleus. To this M. Haily has provided a reply. By an ingenious application of his mathematical science, he has not only calculated the laws, by which the known secondary forms of all crystals may be generated, but he has demonstrated, that it is impossible, by any law of decrease, to derive certain secondary forms from particular integral molecules; and this demonstration is the more important, as, in several instances, it precludes the possibility of consounding substances effentially different, which the ambiguity of their other external characters might have caused to be erroneously associated.

Where the industry and dexterity of Mr Haily have failed, in mechanically extracting the integral molecule, he has discovered its form, by an inverse operation of the calculations that would

have determined the secondary forms, had he been put in possession of the primitive one. The geometrical propositions, by which the accuracy of his deductions is demonstrated, are given at length by M. Hauy: the particular propositions relating to each species, accompany the descriptions of the mineral to which they belong: he has rendered the description of crystalline forms simple and precise, by applying to it ingenious representative signs; and he has devised a nomenclature, in which almost every known

crystal is distinguished by a specific denomination.

It is not from so short and imperfect a sketch, that the merits of a system, so various in its relations, and so complicated in its detail, can be properly appreciated. It appears to us to have enriched mineralogy with the only unerring external character, and to prefent an infallible criterion for determining the mineralogical species. We need no longer reluctantly rely on the discordant refults of analysis, nor allow ourselves to be bewildered by the intermixtures of colour, by indeterminate fracture, or varying specific gravity. We are possessed of a character impressed with mathematical accuracy, which no illusive appearances can conceal; which our wilfulness cannot vary, nor our ignorance mistake.

Analysis, locality, and other external or internal characters, enable us to associate to the perfect crystal, the abortions of disturbed crystallization, and the amorphous masses in which minerals are most frequently found. Even here, the laws of crystallization frequently apply; and the integral molecule may be extracted by mechanical division, from an apparently unarranged mass. To the few substances that are as destitute of regularity in their internal structure, as in their external form, the usual

modes of investigation must still be applied.

It is in the determination of the *species*, that the interests of philosophy are most concerned. The manner in which they are afterwards grouped into genera, or classes, is comparatively unimportant; and as its utility wholly consists in directing us where to seek for the species we are in quest of, it may be fafely resigned to the caprice of each fabricator of a system, provided its arrangement does not violate any established law, or militate against any acknowledged fact. The impropriety of classing minerals strictly, according to the proportions of earths they contain, as determined by analytic experiments, seems to be sufficiently proved by the uncertainty attached to such investigations.

The progress of science has seen minerals repeatedly transferred from one genus to another, to the no small embarrassment of those whose knowledge of a mineral is confined to the relative abstitution its name occupies in the columns of the system which they honour by their approbation. A system which would re-

quire

quire take to be divided into two species; because it is sometimes found to be utterly divested of the magnetian earth, which, upon other occasions, is effected its most effential component, may have been established in the infancy of science, and continued through despair of devising one less objectionable; but its existence ought to cease with the ignorance which sanctioned it.

Perfectly aware of the difficulties under which the old division laboured, M. Hauy has distributed minerals by a method, the simplicity of which leaves it little liable to objection. His first class consists of the combinations of earths and alkalies with acids. The second class consists of the combination of earths with earths; sometimes united with an alkali. The third class consists of combustible substances not metallic. The fourth class, of metals, arranged according to their oxidibility and reductibility.

In the description of each species, after stating the name by which he wishes it to be distinguished, and its synonymes, M. Haüy proceeds to consider its essential character, derived from the most prominent, unvarying, and definite of its internal and ex-

ternal characters.

In confidering the geometric character, the primitive form is given, together with the value of its angles. The greater or left facility of obtaining the nucleus by mechanical divition is stated, and the direction of the natural joints is indicated.

He proceeds to examine the physical characters, comprehending specific gravity, relative hardness, fracture, magnetic and electric relations, refraction, phosphorescence, tenacity, &c.

Its chemical character comprehends the action of the blowpipe, and of acids; and gives the refults of the analysis in which

the greatest reliance can be placed.

These compose the specific character of each substance, and are distinguished by their invariability, from the diversity of forms it may exhibit, the colours with which it may be decorated, and

the variable degree of its transparence.

In investigating the forms which any mineral assumes, those which are determinable are first examined. This term includes all crystals capable of geometrical description. Each is distinguished by the name which has been designated in the nomenclature of crystals to represent that particular variety; the value of its angles are indicated; and, if the structure is complicated, the necessary elucidations are given.

The indeterminable forms are next noticed. They comprehend the results of disturbed or rapid crystallization, and all those minerals that are stalecticie, globular, granular, or wholly amorphous. The varieties of colour, and degrees of transparence, are next atvol. III. No. v.

tended to. The diffinctive characters which effentially facilitate the examination of minerals, by pointing out wherein they differ from the fubstances to which they bear a general resemblance, are detailed with remarkable perspicuity and precision. Each article is terminated by annotations on the geological relations of the substance, and observations on its utility in medicine, or in the arts.

This rigorous examination of minerals, and inquiry into relations hitherto imperfectly developed, has led M. Hauy to make very important changes in the distribution of the species. Not a few, which appeared with distinction in former systems, are now reduced to varieties; and not a few species, which appeared too comprehensive, have been subdivided. Many mineralogists will start at finding chalcedony, jasper, hornstone, and opal, united to the species of quartz; and will be almost equally amazed to find zeolyte subdivided into mezotype, stillbite, analcime, and chabastie. It would far exceed our limits, to enter into a disquisition on individual alterations; yet it is proper to express our general opinion of their propriety. After recovering from the shock occasioned by the overthrow of our previous associations and prejudices, we have commonly acceded to them; and almost always, on extending the investigation, we have enjoyed the satisfaction

of yielding an unqualified affent.

The innovating hand of M. Hauy has not been confined to these changes; for his reader will find, that the entire nomenclature of mineralogy has been altered, and that scarcely one of his old acquaintances bears the denomination by which it was formerly diffinguished. Of all the alterations he could possibly devife, this is the one which must prove the most intolerable to veteran mineralogists. It is most offensive to the self-love of many, to the prejudices of others, and to the indolence of all. The difcoverers, who have bestowed some favourite denomination on the fubstance they have introduced to public notice, and perhaps have given it their own name, or prevailed on their friends to give it, will be not a little irritated to find this child of adoption torn from them, and announced to the public under another appellation, which, to their ears, must found most barbarous. Those whose attachment to fystem and establishment renders all innovations suspected and difagreeable, will feel their indignation not a little excited; and all will find it an unpleasant exertion, to obtain a knowledge of these new names, and to acquire the habit of associating them readily with the objects they represent. Aware, as M. Hauy must have been, of the general disquiet the change of nomenclacould not fail to produce, he ought to have potent arguments to justify his adoption of so unpopular an alteration. Let us examine his inducements.

All fystem-mongers seem to be affected by a troublesome propensity to neology, and have erroneously imagined that there is as much merit in fabricating a word as in discovering a fact. They seem to think that the grandeur and novelty of their language may give an aspect of originality and sublimity to their hypothesis; and that the obscurity in which their phraseology may involve it, will render it more disticult to assail. Frequent failures have not convinced them of the fallacy of these ideas; and almost every theory, from the phlogistic one of Stahl to the transcendental one of Kant, has been distinguished by an almost entire change in the names of the subjects to which it related. These changes, however, are sometimes necessary; and the old mineralogical notnen-clature will be found to contain numerous instances of names that effentially needed reform.

The new chemical nomenclature has been fanctioned by the approbation of all Europe; and it would be abfurd to object to its extension to mineralogy, in every instance where it could be consistently applied. It is certainly much better to talk of sulphate of barytes, than of ponderous spar; of phosphate of lime, than of apatite; and of sulphate of strontites, than of schittzite, by which the Germans have chosen, with their usual diffregard of euphony, to distinguish that mineral. Sulphuret of lead is more intelligible than galæna; phosphate of lead, than either green or brown lead; and molybdate of lead, than yellow lead ore. These names can only be disagreeable to those who are ignorant of every thing about a mineral except its mere external appearance, and the appellations by which they have been accustomed to distinguish it; for its chemical name must be suggested by a knowledge of its composition.

As far as the adoption of the chemical nomenclature extends, we most heartily agree, therefore, with M. Haiiy's reform; but there is a very numerous class of minerals composed of earths combined with earths, with or without a metallic oxide, and with or without an alkali. No modifications of language can describe the composition of these substances, without extending the name to an immeasurable length, and without the greatest consustance, from the similarity of composition in very different minerals. To such substances, therefore, a specific denomination must be applied; and M. Haiiy found so many desects in the old nomenclature, that he has almost entirely changed it.

Where two minerals were affociated, in his system, that had farmerly been considered as distinct, it sometimes was requisite, to prevent mistakes, to substitute one new name in place of the two old ones; and it was absolutely necessary, when a former D 2

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species was subdivided, to differguille each of the newly constituted

species by a particular appellation.

Thele inflances, however, are not very numerous; but the there in which the old nomenciature was generally confirmated, was thought liable to various objections. Many minerals derived their name from the places in which they were found, and thele were confidered as vicious, because, being frequently found in lituations very remote, 'leveral' appellations might, with equal propriety, be given to the fame substance. Others were named from their colour, others from radiation, or any other peculiarity in their structure; and these again were thought defective, because the diffinction on which the name was founded, was generally not confined to the fubitance which derived its appellation from it. Other names arose from some fanciful analogy, as the horablendes, hornstones, &c.; and these required change, because the analogy was vague or unphilosophical. Some names were rejected because they were unharmonious, and another tribe on account of the monotony of their terminations. Others were more reasonably objected to, because the same names had been used in different countries to denote substances entirely diffimilar. In short, the grounds of exception were to many, and to captious, that it is much to be wondered at that any one of the old names should have passed the ordeal.

To remedy these defects, it was proposed to devise a nomenclature which should describe the specific characteristic of the sub-Aznce. Where the mineral could not boast any very prominent feature, it was thought most eligible to give it some denomination quite unmeaning, as the name of the discoverer, or one derived from ancient mythology. Probably M. Haiiy was not acquainted with Gulliver's travels, or he would have employed a machine firtilar to that which was used with so much success for composing books at Laputa; a contrivance which must have been unrivalled in the fabrication of unmeaning names. To these insignificant denominations, however, we can only object, that they are troublesome and unnecessary. But M. Hauy has devised another mode of deriving names, that appears to us to merit a more ferious reprobation; for he has made them the vehicle of his geological theories, and has baptized feveral minerals according to their fitppoied relationship to fire or to water. This attempt is equally idle and prefumptuous. We shall, in another place, examine the geological opinions of M. Hauy; and, till then, shall be contented with this exposure of his futile endeavours to inconporate them with the more subtantial and scientific details of his yr 24 trestife...

M. Hauy observes, that some exception from the rigour of his principles should be made in favour of such names as have been fanctioned by very general use. To this we have no objection. We only regret that he has so much limited the operation of this principle, and that the few inflances of its exertion have been in favour of some of the greatest nomenclatural delinquents that have appeared before his tribunal. After his indifcriminate cenfure of all geographical names, how came Strontiane from Strontian, and Yttria from Ytterby, to be allowed to pais? and, after the just reprobation of the word spar, we are surprised to see feldspar permitted to occupy a place in the system. We cannot fairly object to arragonite, as it only enjoys a reprieve; or to actinte, which exists in the same precarious manner, with small hopes of transmission to a second edition. We may more reasonably complain, that other names were not equally favoured. The word augite appears vastly preferable to the fantastic, theoretic term, pyroxene, which is interpreted, bete ou evanger dans le domaine de feu.' Leucite was perfectly well known to every mineralogist, of course liable to no ambiguity; and now we see its place supplied by the word amphigene, 'qui a une double origin,' referring, like pyroxene, to the author's geological opinions. Sappare, a name unmeaning, indeed, but pretty generally received, has, we know not why, been supplanted by disthene qui a deum forces, obseurely alluding to its electric qualities. M. Hauv unfortunately found the French language too inflexible to fecond his exertions, and he was obliged to find names for his follers, in the inexhaustible mine of Greek literature. His readers have little cause to regret their being expressed in a language which, to many of them, is probably inaccessible; for it is difficult to conceive any thing more ridiculous, than some of the fignifications, which are gravely detailed as characterizing the substances they are applied to. We find meionite ' moindre ou inserieure;' pleonaste 'qui furabonde;' amphibole, 'equivoque ou ambigue;' diallage, difference; aptome, simplicité; and, to sum up all, chabasse, tire d'un mot grec qui designait une certaine espece de pierre.' It is but justice to M. Hauy, to observe, that for this last name he is indebted to the citizen Bosc d'Antic, who deserves to be immortalized for having devifed the most superlative specimen of nomenclatural absurdity. It appears obvious from these examples, that, even supposing the objections to the ancient nomenclature were well founded, and the views by which M. Hauy proposed to guide himself in its reformation were correct, he has entirely failed in attaining the objects he proposed, and disfigured the language of science by numerous barbarous innovations.

Some of these remarks may appear to be unnecessarily severe;
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but it must be remembered, that the defects of a work, of fuch Aerling merit, are of extensive and formidable operation. Errors which might have passed without observation in an ephemeral production, call for serious reprobation when they appear incorporated with a system which promises to effect a change in the science of which it treats. We should be glad, indeed, that this difagreeable part of our talk might terminate with these animadversions; but, however we may admire the fagacity and precision with which M. Hauy has discussed individual species, we cannot yield the fame unqualified approbation to his geological specula-A flight examination of them will convince our readers, that M. Haily is merely a mineralogist of the cabinet; that he is unacquainted with the magnificent arrangement of mountains; and that, from inexperience, he is incapable of comprehending the vast details of their construction, of developing their relations, and tracing the transitions which form the links of their union.

The geologist who is accustomed to the examination of mountains, who is informed of the variety of structure which is exhibited, and the complexity of gradations that may be traced in examining the grand features of the constituent masses of the earth, will not be a little aftonished to find all rocks huddled into an appendix. Overpowered by the immensity and novelty of these contemplations, and bewildered by diversities of aspect, M. Hairy has lost fight of the order which pervades the arrangement of mountains; he has perplexed himself with ideal irregularities, and has introduced into his descriptions of rocks, a consuston which only exists in his own ideas. Aware of his own inexperience in this department of the science, M. Hauy solicited the aid of the illustrious Dolomicu, and informs us, that he has been guided by the lights of this fagacious observer. In this part of the work, however, we have found errors and inconfiftencies, that cannot possibly be imputed to that eminent geologist, so distinguished for accuracy of observation, and luminous arrangement of facts.

In the examination of their structure, rocks may be divided into simple and aggregate. Simple rocks have generally been confidered as species in mineralogical systems, and the components of aggregates have been individually examined. A wish to render all the species he permitted to hold a place in his system, as precise as possible, has induced M. Haiiy to reject every thing that appeared illadefined; and, imagining simple rocks to be susceptible of great variety in their composition, he has almost entirely excluded them. It appears to us, that, in some instances, he has allowed this principle to conduct him too far; and that, in others, he has shrunk from the consequences which must have resisted from its rigorous extension. Had this rule been strictly adhered.

hered to, limestone must have been excluded from the system, as its contaminations are numerous and variable; yet we find all its combinations admitted, and their composition detailed with confiderable accuracy. Jasper ought to have been equally rejected; fince it is only a contamination of quartz, and conflitutes rocks, as irregular in composition, and as much perplexed with transitions, as any rock M. Hauy has placed in his appendix. It is difficult to conceive, on what principles these have been admitted, when serpentine was excluded; especially as M. Hauy expressly says, it has the fame relation to tale, that limestone has to calcareous spar. We find petrofilex in the appendix of substances imperfectly known, and there it is perhaps properly enough placed; for we believe there is no one fubstance whose composition is more various. The Germans have confounded a variety of quartz with petrofilex, under the name of hornstone. This affociation is most improper. The first is found in mineral veins, and forming bands, veins, and nodules, in fecondary limestone: it is totally infusi-The other forms veins and strata in primitive rock, is frequently the basis of porphyry, and is always more or less fusible. We are obliged to M. Hauy for carefully avoiding to confound: these substances, though we are far from agreeing with him in the supposed identity of petrosilex and compact feldspar.

We fearched through the collection of rocks, in vain, for the filiceous schistus, or lapis lydius of the Germans, which seem to have been totally overlooked. To make amends, however, we are presented with a rock under the denomination of rache cornéenne, a name which is perfectly inadmissible on the principles of nomenclature laid down by M. Hauy, as it is founded on a vague ana-We are informed that trap is a variety of this corncenne; and afterwards we find bafalt confidered as a lava. The old French mineralogists pretended to have discovered some unintelligible difference between trap and basalt; but though this is roundly assumed in M. Haiiy's treatise, we are provided with no means of distinguishing the basaltic lava from the cornéenne dure, or trap, unless it be the prismatic form; on which, it is well known, no dependence can be placed. After the assumption of basalt as lava, we need not be furprifed to find obfidian pearliftone, and various other fubstances, forcibly associated in the same class. This, however, will not be conceded without a contest, which M. Hauy fecms wholly unprovided with arguments to maintain. Substances of so dubious a nature ought to have been examined with peculiar care, to detect, if possible, some latent character which might lead to the determination of their origin. them, to our mortification, hurried over with extreme negligence, without even a notice of their most obvious characters. It would

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feeri, that the magic word love is confidered as containing the effence of all description. Though swelled by several minerals of at least dubious origin, the catalogue of volcanic substances is very imperfect. It is followed by a notice of the minerals which it is affirmed are formed in lava subsequent to its cooling. This catalogue is also imperfect in extent; and the very principle on which it is founded is objectionable, as several of these substances are discovered in the more recent lavas immediately after their eruption.

It appears unnecessary to extend these observations any farther. We conceive, the instances we have adduced will warrant us in afferting, that this portion of M. Haüy's valuable work falls far below the general tenor of its excellence. The divisions of rocks are arbitrary and indistinct; the descriptions are imperfect; and the theoretic assumptions very frequently unwarranted. The candour of M. Haüy, however, we are persuaded, will prevent him from being mortised by our observations; for in this part of his subject he does not pretend to excel. His dexterity in mechanical division can here no longer avail him; and he is even precluded from deriving benefit from his mathematical science. He has generously risked his well-earned reputation, to render his treatise more complete; and we feel grateful for his efforts, even while we criticise what appears to us their erroneous direction.

At the same time that we have endeavoured to expose his apparent errors and inconsistencies, we gladly express our admiration of his various merits, of the genius which has inspired his performance, and the indefatigable exertions which have realized his scientific views. His style is invariably elegant and perspicuous, his arrangement luminous, and his illustrations ample. The candour and philosophic moderation which is maintained through the whole work, resect an additional lustre on the talents and industry of the author. We cannot close the article, without bestowing just praise on the subordinate embellishments. The work is extremely well printed, and the volume of plates is executed in a very superior manner.

Art. IV. The Works of Richard Owen Cambridge, Esq. including several Pieces never before published: With an Account of his Life and Character. By his Son, George Owen Cambridge, M. A. Prebendary of Ely. Impidon: T. Cadell & W. Davies, and T. Payne. 4to. 1803.

This is one of the many luxuries and superfluities of modern literature; a book which we are glad to have, but could have

have done very well without; containing nothing very new, or firiking, or important; but innocent upon the whole, and refpectable, and affording a very laudable recreation for those whose curiosity is rather the desire of amusement, than of knowledge.

Mr Cambridge forms to have been one of those persons, of whom poverty would have made a very popular author; but, being unfortunately born to a confiderable fortune, and having gained admission to a very large and distinguished circle of society, he found that he could pais his time more agreeably than in preparing volumes for the preis; and lived a long time in perfect health and tranquillity, without exercifing his genius in any thing of greater magnitude than a few periodical papers, and some occasional little poems and differtations. He was one of those characters, in short, that seem destined rather to delight their contemporaries, than to attract the admiration of posterity. With the happiest temper, and the most amiable manners, Mr Cambridge appears to have united the refined wit and accomplishments of a gentleman, to the learning and information of a scholar, and to have been contented with the pleasure and the reputation that he derived from the colloquial display of his various talents and infor-His biographer, indeed, has informed us, that ' he was remarkably exempt from those passions which usually incline men to exchange domestic enjoyments for the toil of public bufiness; that his love of fame was limited to a defire of being respected and beloved by those in whose society he wished to live; and that his natural disposition and talents were peculiarly adapted to the cultivation of polite literature, and the charms of familiar conversation. '

Such men, though extremely respectable and praiseworthy, and though their multiplication may, indeed, be confidered as the best indication of a refined and collightened state of fociety, generally receive their whole portion of fame in their life, and but feldom obtain any reversion of posthumous celebrity. Few are so fortunate as to have their scattered pieces collected into a handsome quarto, and to have their lives and characters transmitted to posterity by a biographer who joins perfect candour and information to the amiable partiality of affection. The incidents of Mr Cambridge's life are, as might have been expected, neither numerous nor extraordinary; and they are not commemorated as fuch by his biographer. The only thing that provoked a smile in the whole narrative, was to find it carefully recorded, that 'when every necessary arrangement was made for Mr Cambridge setting out on his travels, he was stopped by the bard frost of the year 1739, and his plan was never refumed.' As to the rest of his history, it is very short and barren of incident. He was educated at Eton, where he acted plays

in Latin and English; and at Oxford, which he left without a degree. He entered the Society of Lincolns Inn, but was never called to the Bar. After his marriage, he resided in Gloucester-shire, where he wrote the Scribleriad, built boats upon the Severn, and adorned his estate with plantations. He afterwards removed to Twickenham, where he continued to reside, till death put a period to a life that extended through no less than eighty-six years of innocence and enjoyment. He rode a great deal on horseback, drank water, and was remarkable for uninterrupted and equal cheersulness, great urbanity of manners, and the utmost tenderness and indulgence to his family. He lived in great intimacy with all the literary characters of the age, and seems to have been universally beloved and respected as a delightful companion, and a man entitled to distinction both for his talents and his virtues.

The pieces contained in this volume, are chiefly republications of those compositions which appeared in Mr Cambridge's own life. His principal performances were, the Scribleriad, which was published in 1751, and 'the history of the war on the coast of Coromandel,' which appeared in 1761. The former of these works is reprinted in this compilation, of which it occupies about one half: the other is omitted. The rest of the volume is made up of little poetical pieces, chiefly playful and satirical, and of about twenty papers published in the World,' and fully as remarkable for politeness and vivacity, as any that appeared in that

popular publication.

It would be abfurd in us to enter into any criticism upon works which have been published for more than half a century. The Scribleriad was read, at one time, by all the polite scholars in the country, but never found its way to popularity, and is now almost entirely forgotten. It is a continuation of the adventures of Scriblerus, in the form of a mock heroic poem, and is written throughout with great learning, elegance, and judgement. The subject, however, is by no means interesting; and the composition has a certain uniform mediocrity of merit, that is usually found to link faster in the stream of time, than substances of a more unequal contexture. 'The history of the Coromandel war' is fimply and clearly written, though the fubfequent publication of Mr Dowe's work has, in a great degree, superseded the use of it. There is a pleasing anecdote with respect to this publication, in a note to the account of Mr Cambridge wafe.

M. Lally Tolandel, the fon of M. Lally who commanded the French force in India in the war of 1756, happening to meet my father at a friend's house, caperly inquired if he was the author of a work

work relative to India; and being answered in the affirmative, sprung forward and embraced him with great emotion, apologizing for this liberty, by affuring him, that he was under more obligation to him than to any man living; for that his work had been of greater service than all the other documents he could procure, towards redeeming his father's honour, and recovering his property; owing to the clear and intelligent detail it contained of the transactions on the coast of Coromandel, in which M. Lally bore so principal a share, and to the just representation it gave of the conduct of the French in that quarter. P. liii.

Of the smaller pieces, there are some imitations of Horace executed with a good deal of point and vivacity, and some elegies and epistles in a very pleasing style of composition. The rest are mere vers de societé. We add the two sollowing parodies, which have the merit, we think, of being very ludicrous.

Occasioned by the Author hearing of a Clergyman, who, in a violent fit of Anger, threw his Wig into the Fire, and turned his Son out of Doors.

> " Now by this facred periwig I fwear, Which never more shall locks or ringlets bear, Which never more shall form the smart toupee, Forced from its parent head,—(as thou from me); Once 'twas live hair; now form'd by th' artist's hand, It aids the labours of the facred band; Adds to the Vicar's brow a decent grace, And pours a glory round his rev'rend face. By this I fwear, when thou shalt ask again My doors to enter, thou shalt ask in vain." · He spoke; and furious with indignant irc. Hurl'd the vast hairy texture on the fire; Then sternly filent fate—the active flame Remorfeless wastes the soft and tender frame: Writhed to and fro confumes the tortured hair, And, lost in smoke, attenuates to air,' P. 332- 333-;

On meeting at Mr Garrick's an Author very flabbily dreft in an old Velvet Waillcoat, on which he had fewed Embroidery of a later date.

'Three waistcoats in three distant ages born,
The bard with faded lustre did adorn.
The first in velvet's figured pride surpast;
The next in 'broidery; in both the last.
His purse and fancy could no further go;
To make a third he joined the former two. 'p. 350.

Upon the whole, this is a book which the rich will do well to buy, and the poor may be very well contented to want. It

is very handsomely printed, and is embellished with about a dozen portraits of the author's celebrated friends, and two views of his places of residence.

ART. V. Publii Virgilii Maranis Opera: ad lettiones probatiores diligenter emendata, et interpunctione nova sepius illustrata. Cura Joannis Hunter, LL. D. in Academia Andreapolitana Litt. Hum. Prof. Andreapoli. 12mo. 1800.

A CRITICAL edition of a classical author from a Scotish press, is fo very rare an occurrence, that we should be inclined to take fome notice of this book, even if its intrinsic merits did not entitle it to our attention. The talk of an editor, however, we are forry to fay, does not appear to afford any great encouragement to the perfeverance of those who have already proved their qualifications for the discharge of it. It is now several years since Dr Hunter presented the public with a very correct and valuable edition of Horace, in which a variety of emendations on the text and punctuation were supported and illustrated by the addition of notula quadam et variantes lectiones. Virgil, however, now comes out without any notes or various readings whatfoever. The text is reprinted almost exactly from the second edition of Professor Heyné; and the only critical observations which the volume contains, are presented all together in a short presace, which every reader, we believe, has wished longer.

It is not only the great merit of most of these remarks that makes us anxious for something of a more detailed annotation from the same hand, but an intimation which Dr Hunter himself gives in the outset, that he has adhered to the reading of Heyné in several places, where he could not help having considerable doubts of its propriety, through his unwillingness to set up conjectural emendations against manuscript authority. This is undoubtedly a very laudable diffidence, in so far as the text is concerned; but from what we have seen of Dr Hunter's observations, we are persuaded that those conjectures which are now altogether suppressed, would have afforded matter for many very excellent and instructive notes; and we cannot help regretting, that he should have been prevented, by any circumstances, from submit-

ting them to the confideration of the public.

The preface, which may be confidered as a specimen of Dr Hunter's talents for annotation, contains a confiderable number of very interesting discussions. We shall mention a few instanIn the twelfth Eneid, Eneas is described, after his wound, in the following lines, which stood thus in all the editions previous to that of Heinflus.

 Stabat acerba fremens, ingentem nixus in haftam, Æneas, maguo juvenum et mœrentis Iuli Concurfu lacrimisque immobilis.

Now this, which is the reading of almost all the manuscripts, is undoubtedly the right reading according to Dr Hunter. The meaning is, that he remained unmoved juvenum concursus et lacrimis Isli. Heinfius, however, who does not appear to have understood this form of construction, took it upon him to expange the que after lucrimis, and to perplex the whole passage by a wrong punctuation. Both Burman and Heyné have followed this erroneous correction; and the passage stands thus in all the recent editions.

Stabat acerba fremens, ingentem nixus in haftam, Æneas, magno juvenum et mœrentis Iuli Concurfu, lacrimis immobilis.

In order to confirm his own and the ancient reading of this pailage, Dr Hunter here takes occasion to observe, that it is not at all uncommon for the best writers to enumerate together, a number of things that have each some separate and peculiar relative, or appropriate adjunct, and then to subjoin all the relatives and adjuncts in a separate list, leaving the reader to pick out and affort all the connected words, from their obvious sense and connexon. In Virgil, he observes, there are many examples of this, as—

 Munera portantes, aurique eborifque talenta Et fellam.

That is, talenta auri, et fellam eboris. In the fame way-

Idæumque Jovem, Phrygiamque ex ordine matrem Invocat, et duplices cal que ereboque parentes.

The same peculiarity of construction occurs in this passage of Livy—' Irreligiosum ratus, facerdotes publicos sacraque populi Romani pedibus ire ferrique;' that is, pedibus sacerdotes ire, et sacra ferri. In Homer, also, this arrangement is very common.

Ενθαδ αμ' οιμωγη τε και ευχωλη πελεν ανδρωνο Ολλυκτων τε, και ολλυμετων.

The meaning is evidently, suzula oldurrur, and opens oldururur. In English poetry, the same construction is quite familiar. In the notorious translation of Sappho—

Bleft as the immortal gods is he,
The youth who fondly fits by thee,
And hears and fees thee, all the while,
Softly fpeak and fweetly fmile.



Rope also fays-

Annual, for me, the grape and rofe renew The juice nedarcous, and the balmy dew.

In these instances, no ambiguity or consusion appears to arise from the disjoined position of the corresponding words; and we perfectly agree with Dr Hunter in thinking, that the passage which Heinsus and Heyné thought it necessary to alter, is infinitely more intelligible and graceful, according to the old reading, and upon this view of the construction. At the same time, we may observe, that this dislocation of the associated words becomes faulty and ungraceful, whenever the number of separate objects, thus enumerated together, is so great as to produce any degree of consusion. We do not remember that any of the ancient classics have ever employed it where more than two things were taken together. Shakespeare, however, in the sollowing verse, has used something of a larger license.

⁶ The courtiers, fcholars, foldiers, eye, tongue, fword. ⁹

And Milton, upon another occasion, has gone still farther-

O'er bog, or steep, thro' strait, rough, dense, or rare, With head, hands, wings, or feet, pursues his way, And swims, or sinks, or wades, or creeps, or flies.

In such passages, the crowd and hurry of the primary objects is so great, that when we meet the relative secondary one, it is almost impossible to determine to which it should be referred. When so many couples, in short, are mingled together in disorder, it is quite impossible, at one glance of the eye, to assign to each word its proper partner.

In the Fourth Æneid, Dr Hunter has made a very ingenious observation on a passage that has perplexed all the commentators from Bentley to Heyne. It is that where, after comparing Mer-

curry to a bird skimming along the water, the poet says,

Haud aliter terras inter coelumque volabat; Littus arenofum Libyæ ventofque fecabat Materno veniens ab avo Cyllenia proles.

Bentley, holding the phrase 's secare littus' to be absurd, is for substituting legebat in the first line. Dr Hunter, however, retains the common reading, upon the authority of all the MSS.; and, merel taking away the point at the end of the first line, reads, at littus arenosum Libya.' In justification of this construction, he observes, that it is by no means unusual for an intransitive work to assume, in some degree, the power and activity of a transitive; in which case, it admits the same syntax, and acquires the

fame power of government. Thus, Virgil himself has used and construed the verb trepidare.

 Multa manu medica, Phoebique potentibus herbis, Nequidquam trepidat.

Ardere, in like manner, takes an active form in 'formosus pastor Corydon ardebat Alexin:' and Horace has 'exsudare causas.' Although we do not recollect any instance in which volare is construed in this manner by any of the poetical classics of antiquity, it is remarkable that Servius has employed it in this commentary upon the word velivolus, which, he says, signifies either id quod velis volatur seu transstur, or quod velis fertur. Virgil himself, we may finally remark, has used the phrase, 'cava trabe currimus aquor.' Now, if it be allowable to say, 'currere sequor,' we certainly do not see why it should be thought inconsistent to say 'volare littus.'

In the Fifth Book, the common editions read,

Tum fenior Nautes, unum Tritonia Pallas Quem docuit, multaque infignem reddidit arte, Hac responsa dabat, vel quæ portenderet ira Magna deûm, vel quæ fatorum posceret ordo; Isque his Ænean solatus vocibus insit.

Dr Hunter reads bic in the third line, understanding those verses as a kind of parenthetical description of the prophet; and, we think, rightly. There is no form of construction more common, than this resuming of the nominative case after the sentence appears to be proceeding to something else. Nay, there are many instances in which an object is sirst introduced, in some of the oblique cases, in the course of construction; and then the nominative is resumed, without regard to that construction, for the purpose of stating or expounding some circumstance attending it. Thus, in the Tenth Book of the Æneid, we have

rapiens immania pondera baltei, Impressumque nefas-

all in the accusative; but the farther description of the nefus is given, without any interval, in the nominative:

Cuesa manus juvenum soede, thalamique cruenti.

Aristotle, in the following passage of his Rhetoric, has used the same construction: Armyan myada usan radi, in the accusative; and, immediately after, sudminorum, diameters, and ena, &c. We shall be the more readily exoused by our classical readers for enlarging upon this minute particularity of syntax, when we state, that a learned

learned Professor of Germany has actually taken upon him to after a whole passage in Xenophon's Apologia Socratis, from ignorance of its existence. The words in all the MSS, and printed copies stand as follows; and, from what has been already said, it is evident they stand in need of no emendation:

—εθ' οις γη μην εργας καταν θανατος και ζημια, ίεροσυλιαι, τοιχωρυχιαι, ακδεμπόδισις, πολεως προδοσια, αθ' αυτοι οι αντιδικοι τατων πραξαι τι κατ' εμαφάνεν. Αρ. Soc. \int 25.

Now, Professor Zeunius, of Wittemberg, in his edition of this part of Kenophon's works, has deliberately turned all these norminatives into datives, that they might agree with segois in the beginning; and applauds himself very much for the correction; observing, 'vulgari sections nihil ineptius single potest.' Such is still the diffidence of these reformers!

Upon the subject of punctuation, Dr Hunter refers, in his Preface, to the following passage of the First Georgic, which stands thus in Professor-Heyne's, and the greater part of the earlier editions:

Semina vidi quidem multos medicare ferentes, Et nitro prius et nigra perfundere amurca; Grandior ut fetus filiquis fallacibus effet: Et, quamvis igni exiguo properata maderent, Vidi lecta, diu et multo spectata labore, Degenerare tamen, ni vis humana quotannis Maxima quæque manu legeret.

The fourth line of this passage, which, by this punctuation, is connected with the latter clause of the sentence, has given infinite trouble to the commentators. A verbal critic may indeed be excused for being ignorant of the mysteries of agriculture; but it is scarcely possible to repress a smile, when Professor Heyné gravely informs us that beans, which have been boiled till they are foft, will grow faster than any other. Dr Hunter removes all this perplexity, by taking away the point from the end of the third line, and putting a full stop at the end of the fourth. When this puzzling verse is connected, in this way, with the three preceding ones, the meaning turns out to be, simply, that beans are thought to require less boiling if the seeds from which they were produced had been fprinkled with nitre before fowing. This interpretation, which the new pointing fuggefts most pobviously, is confirmed, in a very fingular way, by a passer in Palladius, which seems to have escaped the notice of Profesor Heyné and all the other commentators. This writer, attout any allusion to Virgil, says expressly, ' Græci afferunt fabe semina nitratà aqua respersa, cocturam non habere difficilem.

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We look upon this as a very happy and fatisfactory explication of a passage, which Brunckius thought it necessary to interpolate,

before he could make any sense of it whatsoever.

The punctuation of this edition, indeed, so far as we have examined it, appears to be peculiarly judicious and correct. There is only one passage in which we suspect it to be inaccurate. We allude to these lines, towards the end of the Third Book of the Encid:

Praecipites metus acer agit quocumque rudentis Excutere, et ventis intendere vela fecundis. Contra juffa monent Heleni, Scyllam atque Charybdim Inter utramque viam, leti diferimine parvo, Ni teneant curfus: certum est dare lintea retro.

The whole of this passage, we think, is full of distinctly; and it is one of those upon which we expected some elucidation from Dr Hunter: but, without pretending to reconcile all the parts of it, we are very clearly of opinion, that there ought to have been a comma after contra in the third line, as justa seems evidently to be the nominative of the subsequent verb monent, and not in construction with contra as a preposition.

In the close of his Preface, Dr Hunter has introduced, perhaps not quite regularly, nor by any very obvious connexion, a short differtation on the ancient form of the genitive case, which he conceives to have terminated, originally, in all the declensions in is. As a specimen of his acuteness and latinity, we shall subjoin this passage in the original.

Genitivus in -1, nominum in -Es definentium, in Virgilio frequens est; in cujus rei rationem indagandam viri docti, Heynius et Heinfius, frustra operam suam insumserunt, parum aut nihil proficientes. Itaque genitivi formam antiquissimam, unde omnes deinceps aliæ quæ in usu funt, levibus admodum mutationibus, gradatim provenerunt, rem Grammaticis, tam veteribus, quam recentioribus, adhuc intactam, paucis indicare opera pretium erit. Hac igitur genitivi forma antiquissima, quam declinatio tertia adhuc plerumque servat, definebat in -1s; ut aura, aura-13; animos, animo-13; labor, (olim labors) lubor-13; fructus, fructu-1s; dies, die-1s. Postea vel duz vocales in unam syllabam coibant, wel s clidebatur, vel denique utrumque simul. Ita, ex aura-is factum eft vel aur-As, ut paterfumili-As, vel aura-1, et postremo aur-AE, quod enunciatum videtur aur-A1: ex animo-1s, elifo s, anim-01, quod est anim-1, ut, in plurali etiam numero, ex anu-oi et anu-ois facta funt anim-i et anim-is. In declinatione tertia s plerumque retinctur; interdum, ut in Achill-1, Oront-1, &c. eliditur. In quarta cornu facit vel corn-us, contractum pro cornu-is; vel, abique s, corn-u, contractum pro cornu-i. Eodem modo ex die-1s factum vel di-Es, (vid. A. GELL. ix. 14.) vel die-1; et, postremo, vel di-1, vel di-E, prout vocalis vel prior, vel posterior, VOL. III. NO. 5.

sior, ab altera absorpta fuerit. Uniuscujusque autem formæ exempla, præter -sis, -ois, et -sis, quarum, quod sciam, exempla non extant, ex Ruddimanno, aut Vossio, petenda relinquimus; hic enim de hac re susuagere non patitur instituti nostri ratio. '

The theory contained in this passage appears to us to be at least very probable. All languages are naturally quite regular and uniform in their structure. The idea of relation, denoted by the genitive case, would therefore be expressed, it is most probable, in every word, by the fame adjunct or variation; and, where varieties exist that cannot be referred to the intermixture of another language, it is most reasonable to ascribe them to some such process of abbreviation as Dr Hunter has indicated in the foregoing passage. There is one form of the genitive, however, which he has omitted to specify, or account for: we mean the termination of Achillei and Ulixei, which occur five or fix times in the writings of Horace. It feems easy, however, to reduce this also under the system of Dr Hunter. The original genitive was Achille-is, which, with the s dropt from the end, gave Achilleï, afterwards contracted into one syllable, Achillei. This is sometimes Latin by the editors of Horace (as in Epist. lib. I. 6. v. 65. and I. 7. v. 40.) Achilli: the i long being the general representative of those dipthongs of which it originally formed a part; duzu forming dico, in this way, and areuos, animis. The ancient Latins, indeed, appear to have had a great partiality for this vowel, as they have made it the common substitute for o also, in words derived from the Greek. Aroddors, in this way, becomes Apollonis; Asyones is changed into legemus; and, according to Dr Hunter, all the Greek genitives in as into the corresponding Latin termination of is.

Upon the whole, we can fafely recommend this as one of the most correct editions of Virgil that has yet been offered to the public. We do not know, indeed, that it contains a single typographical error; and in the reading and punctuation of the text, it is sufficient to say, that Professor Heyné has publicly declared it to be superior to any that he had previously examined. We cannot conclude, however, without again expressing our regret that Dr Hunter did not find it convenient to add to its value, by a more copious collection of those critical remarks, of which his Preface contains so favourable a specimen.

ART. VI. Modern Geography, a Description of the Empires, Kingdoms, States, and Colonies, with the Oceans, Seas, and Isles, in all parts of the World: including the most recent Discoveries, and political Alterations. Digested on a new plan, by John Pinkerton. The astronomical introduction by the Rev. S. Vince, A. M. F. R. S. and Pluman professor of astronomy and experimental philosophy, in the University of Cambridge. With maps, drawn under the direction, and with the latest improvements, of Arrow Smith, and engraved by Lowrie. To the whole is added, a catalogue of the best maps, and books of travels and voyages, in all languages. London: Cadell & Davies, and Longman & Rees. 2 vol. 4to. about 1600 pages; and abridged, 8vo. 700 pages.

THERE is no science so attractive as geography. It requires scarcely any preparation of previous study, and deals in a fort of information fo popular and various, as to recommend itlelf even to those who have but little relish for literary occupations. It is indeed a kind of condensation of books of travels, and exhibits the most captivating collection of marvellous truths that ever yet were affembled, to excite or to gratify curiofity. its fubftantial utility, it is unnecessary to speak. In this country, it is confidered as a necessary part of the most common education; the elements of it are taught in our parish schools; and, accordingly, there are scarcely any, except those in the lowest ranks of fociety, who are not acquainted with the relative position, distance, and comparative fize and advantages of most of the nations of Europe:—with the names and fituation of some of their principal cities, mountains, rivers, &c.; with their natural productions, and the principal articles of their manufactures and commerce:—and to whom those parts of the other quarters of the globe, where their own nation has fettlements or trade, are totally unknown. On the Continent, however, the case is remarkably different. There, particularly in France, it is not uncommon to meet with perions who have had a liberal education, and who discover considerable information on other subjects, profoundly and laughably ignorant of countries adjoining to their own, closely connected with it in the annals of history, or allied in commerce or friendship. It is not surprising, therefore, that the continental writers should have produced but few systematic works on geography. If we except d'Anville, there is scarcely one name, in this department of science, of which they are entitled to boast. The French works of La Croix, &c. are too brief, and by no means adequate to convey that portion of geographical knowledge which will refcue that nation from the charge of comparative ignorance. The German works of Busch-E 2

ing, Fabri, Ebeling, &c. are dull and tasteless, and executed too much in the manner of the country in which they appeared, to render the study of geography easy, useful, or interesting. In this country, we have long been possessed of geographical grammars: most of them indeed differ little more than in name: they have all adopted the fame plan; purfued the fame arrangement; and even copied mutually their mistakes and errors. While many effential and highly useful parts of geography are omitted, or carelefsly and imperfectly treated, their pages are filled with a detail of events and circumstances totally unconnected with that science: they seem to have forgotten what the term Geography means and comprehends. We shall in vain look in them for an account and description of the different productions of the earth; of the varied or peculiar appearances of its furface; or even for accurate and scientific information respecting the boundaries and extent of the different countries. On the contrary, we should be inclined, from the perufal of these works, to conclude, that they contained a meagre and ill-digested history of the world, interspersed with a few incidental patches of geographical information. So little skill has been exercised in forming the plan, and arranging the materials of these grammars, that every addition that fuccessively suggests itself is inserted in the most clumly and careless manner; and, not unfrequently, the information given in one part, is directly opposite to that which we receive from another.

We have stated the defects of these systems the more fully, because we cannot characterise the modern geography of Mr Pinkerton more precisely, and at the same time more justly, than by stating it to be free from these defects. The former writings of this gentleman, and the whole course of his reading and studies, had qualified him for the necessary, but inglorious drudgery of laborious compilation. The maps, charts, and books, which he must not only have consulted, but studied and compared, before such a fund of materials could have been collected, must have been very numerous. No expense appears to have been grudged; no pains or labour, however constant or tedious, to have been spared, in order to render the work a complete system of modern geography, according to the plan, which, after mature deliberation, the editor thought proper to adopt. According to this plan,

objects most essentially allied with each other, instead of being dispersed as fragments, are here gathered into distinct heads or chapters, arranged in uniform progress, except where particular circum-stances commanded a deviation: and instead of pretended histories and prelix commercial documents, the chief attention is devoted to objects strictly

strictly geographical, but which, in preceding fystems, have often appeared in the form of a mere lift of names, the evanescent shades of knowledge. '

In the preliminary observations, Mr Pinkerton enumerates the order of the topics discussed:

4. The historical or progressive geography of each country. 2. Its political state; including most of the topics which recent German writers, by a term of dubious purity, call statistic. 3. The civil geography, including objects not fo immediately connected with the government, as an account of the chief cities, towns, &c. 4. The natural geography.'

To the four grand divisions of the world he has added a fifth, which he names Australasia and Polynesia, including New Holland, and the lately discovered islands in the Pacific Ocean. has arranged the states of Europe in three divisions, according to their real consequence, as of the first, second, or third order; and each is treated at a length proportioned to its weight in the political scale, and the consequent interest which it inspires. cording to this arrangement, Turkey is ranked in the first order: It cannot so justly be reduced to the second order; for though perhaps approaching its fall, still it boasts the name and weight of an Empire.' But certainly it ought to have taken its station according to its comparative rank and influence, and its present and real confequence; and not according to its former, and now

merely nominal dignity.

The general description of Europe is clear, accurate, and full. There are, however, two affertions, of which no evidence is offered; and which we are inclined to think are erroneous. enumerating the tribes from which Europe derived its first population, Mr Pinkerton confiders the Sarmatians as diffinct from the Goths and Scythians; and as the fame with the Slavi, the ancestors of the Russians, Poles, &c. In the review of 'A Vindication of the Celts,' we mentioned it as our opinion, that according to the testimony of the most ancient and best informed Greek authors, the Sarmatians were descended from the Scythians; and a more close examination of those authors has completely established our belief in that opinion. It is, we know, generally believed, that the Sarmatæ and the Slavi are the fame: the latter, however, cannot be the fame with the people anciently called Sarmatæ, as their persons, manners, religion, and language, are totally distinct: and we are not acquainted with any evidence, which proves even that the Sarmatæ of the later claffical authors, and the Slavi, are identical. The other opinion of Mr Pinkerton is very fingular, and appears to have been formed altogether by the

the plastic power of hypothesis. He afferts, that the same term was employed by barbarous nations, to denote mountains and forests; because the former were frequently covered with trees. And from this ambiguity, it seems, the Greeks and Romans were frequently led to mention and describe mountains as existing, where, in reality, there was only a large forest. Assuming these positions, for which he offers no authority, he boldly afferts the Riphasan mountains of the ancients, to have been nothing else than a large

forest running from east to west. *

In order that the reader may be enabled to form a clear and just idea of the materials of these volumes, we shall proceed to enumerate the different subjects which are discussed under each of the four grand divisions.—1. Historical or progressive geography. The different names by which each country has formerly been known, and is now defignated, with conjectures respecting their etymological meaning, are given: the extent, boundaries, and supposed or enumerated population, are mentioned.—The next article respects the original population. This very obscure topic is too frequently treated with dogmatism and unwarrantable confidence, and with an evident leaning to the author's own peculiar hypothesis. It is, however, generally curious and interesting; and prefents many facts not commonly known, and many conjectures and observations unquestionably plausible and ingenious. But we must caution the reader to watch carefully and constantly the steps of Mr Pinkerton, when he treads on antiquarian ground.-Progressive Geography, Historical Epochs and Antiquities, complete the first grand division. As the first of these titles is not to be found in former geographical treatifes, and is highly useful and interesting; and as the mode in which Mr Pinkerton treats the historical part, differs very effentially from that which has been generally adopted, we shall lay before our readers the progressive geography of Holland, and the historical epochs of Switzerland, as specimens of this part of the work. It is generally known, that the Rhine is now comparatively fmall and infignificant; and that the changes in its course, and the frequent inundations

In the Appendix to his 'Differtation on the Goths and Scythians,' he advances the same opinion, and supports it by an expression of Pliny, who applies the term jugum to the Hircynian forest. But jugum is a metaphorical term, and is applicable to any continued chain; and same, therefore, without any impropriety, be applied to such a forest as the Hircynian was in the time of Pliny. It is highly improposite, that this well-informed author was ignorant of the existence of this forest. We are therefore justified, in applying the term, as used by liny, to a forest; although the use of it in this scale is, we believe, angular.

undations of the sea, have frequently altered the boundaries, and the appearance of Holland; but the date, the circumstances, and the exact consequences of these events, are, in general, very impersectly known.

' The progressive geography of Holland, (says Mr Pinkerton), becomes curious and interesting, from the singular phonomenon of the increase of the sea. Upon inspecting the accurate maps of the ancient and middle geography of Gaul, by D'Anville, it will be perceived that the Rhine divided itself into two grand branches, at Burginasium or Schenck, about five miles N. W. of the Colonia Fragana, now an inconfiderable hamlet, called Koln, near Cleves. The fouthern branch joined the Meuse, at the town of Mosa or Meuvi; while the northern passed by Durstadt, Utrecht, and Leyden, into the ocean. From the northern branch was led the canal of Drusus, which originally joined the Rhine to the Isul, a river that flowed into a confiderable inland lake, called Flevo, now a fouthern portion of the Zuyder Zee. This canal of Drusus being neglected, and left to the operations of nature, the Rhine joined the Istil with such force, that their conjunct waters increased the lake of Flevo to a great extent; and instead of a river of that name, which ran for near fifty Roman miles from that lake to the fea, there was opened the wide gulph which now forms the entrance. The northern and chief mouth of the Rhine was, at the same time, weakened and almost lost, by the division of its waters; and even the canal of Drusus was afterwards almost obliterated, by the deposition of mud in a low country, in the same manner as some of the ancient mouths of the Nile have disappeared in the Delta of Egypt.

The fouthern branch of the Rhine, which flowed into the eftuary of the Meuse, as above mentioned, was anciently called Vahalis, a name retained in the modern Waal; the ancient isle of the Batavi being included between the two branches of the Rhine, and thus extending about 100 Roman miles in length, by about twenty-two at the greatest The estuaries of the Monse and the Schold have also been open to great inroads from the ocean; and the latter, in particular, which anciently formed a mere delta, with four or five small branches, now prefents the island of Zealand, and the most southern of those of Holland, divided by wide creeks of the fea. This remarkable irruption is supposed to have happened at the time that the Goodwin sands arose by the diffusion and consequent shallowness of the water. changes may be supposed to have made a slow and gradual progress; and some of them seem so ancient as the time of Charlemagne: Some of them are so recent as the 15th century; for in 1421, the estuary of the Meufe, or Maefe, fuddenly formed a vast lake to the S. E. of Dort, overwhelming feventy-two large villages, with 100,000 inhabitants, who

perished in the deluge.

By a subsequent change, the Rhine was again subdivided; and a chief branch sell into the Leck, which joins the estuary of the Meuse between Dort and Rotterdam, and must now be regarded as the northman mouth of that noble river; while the Vaharlia, or Waal, continues to

be

be the fouthern; both branches being loft in a comparatively small stream, the Meuse. The less important variations in the geography, may be traced in the Francic historians, and other writers of the middle ages.? Vol. I. p. 468.

The chief historical epochs of Switzerland, may be arranged in the

following order:
1. The wars with the Romans; the subjugation of the Helvetii and Rhæti, and the subsequent events, till the decline of the Roman Empire in the West.

The irruption of the Alemanni, in the beginning of the 4th. century, who are, by some, supposed to have extirpated the ancient

Helvetians.

4 3. The subjugation of the western part of Switzerland, as far as the river Reuls, by the Franks, who annexed that portion to Burgundy. The Grisons on the east were subject to Theodoric and other kings of Italy.

4. The conversion of the country to Christianity, by the Irish monks Columbanus, Gallus and others, in the beginning of the fe-

venth century.

6 5. The invasion of Alemannia by the Huns, * in the year 909; and the subsequent contests with these barbarians till the middle of that

century.

About the year 1030, the provinces which now constitute Switzerland, began to be regarded as a part of the empire of Germany; and, in the course of two centuries, they gradually became subject to the House of Hapsburg.

The commencement of the Swife emancipation, A. D. 1307;

and the subsequent struggles with the House of Austria.

The gradual increase of the confederacy; the Burgundian and Suabian wars; and the contests with the French in Italy.

The history of the Reformation in Switzerland.

10. The infurrection of the peafants of Berne, in the middle of the seventeenth century.

11. The diffolution of the confederacy by the French invalion A. D. 1798. '

Under the second and third divisions, Political and Civil Geography, we meet with nothing but what is to be found in other lystems; but the information which they contain is arranged with more judgment; it is more full and accurate, and less mixed with extraneous matter. The last division, which is termed Natural Geography, embraces many important and interesting objects, most of which are entirely omitted, or very imperfectly detailed in former works. What Mr P. denominates the physiognomy of the country; the hills, vales, and rivers; their fize, direction, length; the nature of the foil and state of agriculture; the component

The Ugurs, fo called by the writers of the time. anch of the Vogule, a Finnish race.

component parts of the mountains, their general appearance, and height above the level of the fea,-Botany, Zoology, and Mineralogy, form the most original articles in this division. tanical part, as far as it regards the countries of Europe, appears to us to be rendered dry, and comparatively useless, by being loaded with technical terms. To flip in a whole system of Botany, itself a distinct and very comprehensive science, under a subdivision of a treatise on Geography, appears to us to be quite ridiculous. This branch of the subject would have been handled in a manner more fuitable to the place it holds, if it had confifted rather of a detail of the appearance and use of some of the most remarkable plants; especially as this is the mode which is adopted in delivering the botany of the other divisions of the world; and is entirely followed in the Abridgment. A system of geography is not intended for the professed botanist; nor will it be consulted for scientific information in any branch: technical terms ought therefore to be carefully avoided. There is a total want of reference to authorities, for the facts mentioned under the heads, Botany, Zoology, and Mineralogy; which certainly ought to be remedied in future editions; and which appears fingular from the number of books referred to in every other part of the work. Mr P. informs us, in his Preface, that for the botany of the feveral countries, this work is indebted to Mr A. Aikin, a zealous and intelligent cultivator of natural history. He adds, ' It may be neceffary to remind the unlearned reader, that the Latin names in this place are unavoidable, because plants not known in England must rarely admit of English appellations.'

Having given a general outline of Mr P.'s plan and arrangements, we thall now proceed to particularize individual portions of the work, in which he has deviated, in most instances, with confiderable advantage, from the track purfued by former geographers. He juilty observes, that ' it has been urged as a reproach to modern geography, that by the obstinate retention of antiquated divisions, and the confused minuteness of separate deferiptions, it has not made an uniform progress with modern history and politics, which it ought to illustrate.' (Vol. I. p. 333.) Hence many are perplexed, when, in the perusal of modern history, or in the observation of events daily occurring, they find those states acting a principal part, which are scarcely noticed, or merely grouped with others, in fystems of geography; and other states, on the contrary, which those systems place in the first rank, acting a very subordinate and passive part. As an instance, Mr P. particularly notices the House of Austria, which we should be led to confider as, of itfelf, trifling, and almost infignificant in the affairs of Europe, if we were to form our opinion of its relative power and consequence from geographical works: whereas its hereditary dominions alone, entitle it to rank among the chief European principal component parts, 'the arch-duchy of Austria; the kingdoms of Hungary and Bohemia; the grand-duchy of Tran-fylvania, which, with the Buckovina, may be regarded as part of Hungary; the dominion towards the Adriatic, with the acquisitions of Venice and Dalmatia; and, lastly, that part of Po-

land which has fallen under the Austrian sceptre.'

In the third rank of European powers, are included the German and Italian states. Mr Pinkerton differs very considerably from former geographers, in his manner of classing and describing each of these. He first gives a general description of Germany; and afterwards, in two distinct chapters, enumerates and describes the several states to the north and south of the Mayne. This mode of exhibiting the minute and complicated geography of the German states, is certainly attended with many advantages. presents to the mind a picture, in which the principal objects are more distinctly seen, and more closely grouped; and in which more attention is paid to keeping: but we are inclined to think, that the common division of Germany into its circles, with a general enumeration of the states contained in each, ought also to have been given. Although Mr P.'s method is best adapted to give a clear and distinct view, yet the constant reference to the different circles, which we meet with in history, ought to have induced him to have admitted the old division. After a general description of Italy, he considers it as divided into three parts, the fouthern, central, and northern; each of which he treats fully and accurately. In the Appendix to the first volume, is given, the value of coins used in common calculations. This table is very properly confined to those coins which are frequently mentioned in books of history and travels; and it is thus rendered less prolix and obscure than the tables appended to other geographical systems.

The second volume commences with Asia. We refer the reader to the progressive geography of this division of the world, as exhibiting a favourable specimen of our author's industry in refearch, and extent of information, (Vol. II. p. 2—8.) In his arrangement of the Asiatic Isles, as they are improperly termed, he follows the learned President De Brosses, who, nearly half a century ago, proposed, that the countries to the south of Asia, namely, New Holland, New Zealand, New Guinea, &c. should be styled Australasia; and the numerous isles in the Pacific, Polynomy. In order to arrange the different islands under these two different, with clearness and accuracy, Mr P. endeavours to six time limits between the Indian and Pacific Oceans.

As the continent of Amercia divides the Atlantic, or Great West-

ern Ocean, from the Pacific, or Great Eaftern Ocean, (both fo termed in relation to the old and civilized world); and as Africa divides the Atlantic from the Indian Ocean, so, by parallel usage and deduction. what is called New Holland may be confidered as the fixed division between the Indian and Pacific; thus claiming with juffice the authority of a continent, washed by the Indian Ocean on the west, and the Pacific on the east; while a line drawn from the most prominent central capes, in the north and fouth, may be regarded as a boundary of thefe The fouthern extension of this imaginary line is of little moment: but in the north, it must be considered as a division of great importance to precise discussion, as the isles on the west must be considered as firiftly Asiatic, and intimately connected with the description of Asia; while those on the right belong to Australasia and Polynesia. This division must naturally and unavoidably depend on the observation of the wideft channel between the Molucca islands, and Papira or New Guinea; and the degree of longitude, 130 from London, feems nearly to amount to a boundary. Hence Amboyna belongs to the Asiatic ifles, while Timor-laut belongs to Australatia. The meridian of boundary passes through Ceram; but the proximity of that isle to Amboyna, may properly connect it with the Afiatic isles; with which Myfil may also be classed. From the N. W. extremity of Papira, or rather some fmall islands lying at that extremity, a clear line may be drawn, following the fame meridian, and leaving Gelolo among the Afiatic isles on the W., and those of Pelew, among the Polynesian, in the Pacific. This line, then, bending N. W., would include the Philippine islands and the Bashees, passing to the S. of Formosa;—the other limits and appellations being sufficiently clear.

Such may therefore be the affumed boundary between the Indian Ocean and the Chinese Sea on the W., and the Pacisic on the E.; and between the Asiatic isles, and Australasia and Polynesia. The boundary between the two latter great divisions may be traced, by regarding what is called New Holland as a continent, or great leading island, with which those most adjacent must be regarded as connected. Hence Papira belongs to Australasia; and a line drawn in the latitude of three or four degrees to the N. of the Equator, and then passing S. in the meridian of 170° E. from Greenwich, so as to include the New Hebrides: thence in the parallel of 30° S., gradually stretching to 175° W. from Greenwich, including New Zealand, and the isse called Chatam, will

present the natural and precise boundary of Australasia.

'That division called Polynesia, by far the most extensive, adjoins the W. to the line above drawn around the Asiatic isles; thence it assected about lat. 18° long. 128° E., in a N. E. direction, so as to include the isle called Rica de Plata, long. 161°; and thence curving S. E. and encompassing the northern Sandwich islands, where our great pavigator sell, * and the Marquesas; and extending to 120° W. from London.

[•] There are other Sandwich isles, lat. 59° S., or beneath the parallel of Cape Horn. Such is the perplexity of the received nomenclature.

London. Any illes to the N. E. or E. of this line of demarkation,

may be regarded as belonging to North or South America.

The fouthern boundary of the Afiatic isles may be considered as sufficiently ascertained, by the wide channel between them and New Holland; while the N. W. extremity of Sumatra may present a meridian of separation on the W., between the Asiatic isles, eminently so styled, and those in the Indian Ocean. The same western boundary may be assigned to Australasia.

The fouthern limits of the last, and of Polynesia, alone remain; but as few or no islands have been discovered to the S. of New Zealand, the parallel of 50° S. lat. may be lastly assumed as the boundary of

both.

Polynesia will thus extend from 50° S. lat. to about 35° N. lat., that is 85°, or 5100 g. miles; while the breadth taken from long. 170° E. from Greenwich, to 130° W. upon the Equator itself, will yield 60°, or 3600 g. miles.

The length of Australasia may be computed from 95° of the same longitude, to 185°; that is, 90°; in lat. 30°, or nearly 5000 g. miles; while the breadth, lat. 30° N. to lat. 50° S. will be 3180 g. miles.

Even the smallest division, that of the Asiatic isles, which has been called the Oriental Archipelago, is of great extent, from 13° S. lat. to 22° N. lat.; that is, 35°, or 2100 g. miles; while the length from 95° E. long. to 132°, yields 37° not far from the Equator, nearly corresponding with the breadth.

In perusing Mr Pinkerton's work, we have observed several omissions and errors: more in number, and, in general, of greater consequence, than we should have expected from an author so long habituated to minute and laborious investigation. The principal of these we shall lay before our readers, and also our reasons for differing from Mr Pinkerton in some of his speculations and conjectures. Sunderland, Paisley, and Kilmarnock, towns which have rapidly increased in population, trade and consequence, within these few years, are either passed over in absolute silence, or barely mentioned, and claffed with places of comparatively trifling fize and importance. We are afraid, that the unfounded and unaccountable prejudice of Mr Pinkerton against the Gentle Shepherd, induced him to omit the name of Allan Ramfay in the list of Scotish poets. In vol. I. p. 146, where he treats of the antiquities of Scotland, we were surprised and disappointed not to find the vitrified forts described, or even noticed. They are fuch well known and fingular remains of antiquity, and have given rife to fo many various conjectures respecting the object, mode, and time of their construction, that the omission betrays great carelessness and inattention. Mr Pinkerton suffers his fondmess for hypothesis to pervert his judgement, in p. 252, where, speaking of the stone monuments at Carnac in Brittany, he infers that

that they were erected by the Belgic Gauls, and not the Celts, because the Veneti, who inhabited that country in the time of Cæsar, were Belgæ; but, according to Mr Pinkerton himself, they were not the original inhabitants, but the Celts. His description of those curious monuments is impersect and incorrect. He appears to be ignorant that many have, not improbably, supposed them to be part of an entrenchment of Cæsar +. He is entirely silent respecting that work, of stupendous labour and incalculable utility, the Levé on the banks of the Loire. As this structure, so far as we recollect, is not even mentioned in the generality of the descriptions of France, we shall present our readers with the following account of it, taken from a recent tour through France.

We now entered upon the Levè, in my opinion the most stupendous work which France, or almost any other country can exhibit. Compared with it, the utmost exertions of the kind which I have elsewhere seen, are infignificant and pigmy productions: if it is anywhere outstripped, it must be in Holland and in China. The parts of Anjou, Tourraine, and the Orleannois, which border on the Loire, are perfectly stat; and, in the earlier ages of the world, must have formed a vast morass, of not less than 100 miles in length, and from 20 to 40 miles wide. So says tradition, and it appears sighly probable.

The Leve is an immense bulwark, raised by human hands, to exclude the river from this wide, extended tract of country, and confine its waters within its banks, and extends from Angers to Orleans, perhaps farther. Its base may be about 40 feet wide; its elevation is nearly 25 from the adjoining level; and its upper surface, which is paved with large stones, like the streets of London, just capacious enough to admit of three carriages abreast. My inquiries concerning the date of

its origin, and by whom executed, were unavailing. '*

Mr Pinkerton agrees with Mr Townsend, in the causes which he assigns for the defect and decrease of the population of Spain. This is computed at 11,000,000, or 74 to a square mile; while France yields 174, and England 169; and the kingdom of Naples is computed at 201. The expulsion of the Jews, after the conquest of Granada; that of the Moors by Philip III.; the contagious severs frequent in the southern provinces; the incessant intestine wars carried on for seven centuries against the Moors; the emigrations to America; the vast number of unmarried clergy and monks, and the want of detached farms; are the principal causes assigned by Mr Townsend. We are very much inclined

[†] Nouvelles recherches fur la langue, &c. des Bretons, par Mr L. T. D. C. (Mr De la Tour D'Auvergne Corret).

^{*} Hughes' Tour through feveral of the midland and western departs of France in 1802, p. 124.

elined to doubt the operation of feveral of these assigned causes, at least to any extent, or for any length of time; and are of opinion, that others not mentioned by Mr Townsend, particularly that bane of agriculture, the Mesta, and the taxes called Alcavalla and Millones, have been more general and predominant

and lasting in their influence.

We are furprifed that Mr Pinkerton, whose researches on the fubject of language, where it is connected with the antiquities of a country, or illustrative of the origin and relationship of nations are well known, should have passed over in silence that spoken in the Banhat of Timeswar, which, from the account and specimens given of it by Ferber in his letters to Baron Born, is more fimilar to the Latin than any other modern tongue is, and confirms the tradition, that the present inhabitants of that part of Tranfylvania are descendants of the ancient Romans, most probably of fuch as fled from Italy at the invation of the Goths. Mr Pinkerton is filent also respecting a small tribe who inhabit part of Dalmatia near the fea, and who, from the account of Fortis and a recent traveller *, ought to be placed, in the scale of human comforts and of intellect, far below the favages of Terra del Fuego, or Van Diemen's land. Nothing but the extremity of hunger can compel them to use any exertion to procure food; and in this employment, they discover no skill or ingenuity; so that, if any thing obstruct them in their accustomed stupid method, their refources are at an end: they ccase to labour, and resign themfelves to torpid inactivity and famine.

It is well known, that the north-west corner of Spain is inhabited by a race of people totally diffinct in manners, disposition, and language, from the other inhabitants of that peninfula. Their language, in particular, prefents not the most distant refemblance in its original and genuine words, or in its grammatical structure, to any of the languages of Europe. It is probably more pure than any other modern tongue. Their manners and disposition also seem not to have been changed or modified by their vicinity to France and the other parts of Spain. In whatever respect the Biscayans are considered, they may justly be deemed a fingular race, well worthy the attention of the philosopher and philologist. Don Hervas, who has lately published a catalogue of all the known languages, is inclined to the opinion, that the people of Georgia in Afia are descended from a Basque colony, from the close and general resemblance between the languages spoken in Georgia and Biscay. The accounts which are given by Baretti and Fischer, of the manners and language of Biscay, are

very meagre and imperfect. From the researches of Mr Pinkerton, stimulated by his attachment to antiquarian and philological studies, we expected some original and accurate information on this subject; but he does not even take notice of this part of Spain. Mr Pinkerton ought to have described, among the natural curiofities of the German states, the subterraneous recesses in the fands of Westphalia, in which human bodies have been preferved for many centuries, by the extreme aridity of the foil and climate, without any alteration, except that their skin is dry and shrivelled. A very short and imperfect notice is given of the island of Sardinia, in a note (vol. I. p. 650). This island, from its fize, ought certainly not to have been passed over in this degrading manner; and as Mr Pinkerton must have known that former fystems of geography contain very little information respecting it, and that it has never been described or visited by any English traveller, he ought to have considered it as his duty, in a work which is held forth as a complete system, and as intended and calculated to supply the defects of former authors, to have given the refult of every thing which has been written respecting this island. In the account of Tibet, no mention is made of the existence of Cretins, similar to those near Sion in Switzerland; though, as these unhappy creatures are found only in these two countries, and present an appearance at once humiliating to human nature, and interesting to the philosopher, the existence of them in Tibet ought certainly to have been mentioned.

Mr Pinkerton feems, with great justice, to doubt of the existence of Bassin's Bay: It is, indeed, very improbable that Bassin should have made, in so high a latitude, so many discoveries as he claimed; and it is singular that they are all unknown to succeeding navigators. If Bassin's Bay do not exist, it is probable that Greenland is a continuation of the new continent: from the specimens of the language of Greenland and the Esquimaux Indians given by Don Hervas, the connexion, or at least the contiguity of these countries may be inferred. In page 587, Mr Pinkerton has extracted from Dobrizhosser, a German missionary, a very curious account of the Abipons, a warlike nation on the Rio Grande.

Mr Pinkerton's work concludes with a catalogue of maps, charts, and books. A catalogue raisonnée, if executed with judgment and impartiality, would be a very useful appendage to every work which had required from the author extensive relearch. It would not only prove highly satisfactory to the reader, by enabling him to collect information for himself, and to consirm every account of which he entertained any doubt, but it would

ferve the important purpose of saving time, and preventing its milapplication in the perulal of improper or trifling publications. Books are now fo multiplied, that he who wishes to engage in the study of any branch of literature or science, is at a loss which to reject, and which to peruse; and would feel himself highly indebted to the man who would give him a catalogue, and a short character of the principal works in each department. Such catalogues might be drawn up without much labour, if each author, who has been employed on a work where it was necessary to confult all that had been previously written, would undertake the one connected with his subject. They are not uncommon in Germany; and there are a few in France. In the former country, Professor Meiners has appended to his History of all Religions a most excellent, and at the same time concise, account of the different books which he confulted. The catalogue of Mr Pinkerton is defective in many respects: The titles are seldom given fully; frequently the fize of the book, and the best edition, is not mentioned; and the character is not fufficiently precise and determinate. We shall briefly notice a few of the most important omissions and errors.

'Marshall's Journey, '&c. It is impossible to determine what book is meant by this short and imperfect title. The work referred to was published in 1776; the author was W. Marshall, Esq.; he travelled through all the north of Europe, and through Poland, the Netherlands, Germany, and parts of France and Spain. The work consists of four volumes; but the fourth volume, which contains his journey through France and Spain, is seldom to be met with. We can considently recommend these travels, as containing more full, accurate, and scientific information on the important subject of agriculture, than most works of

this nature.

'Ponz, Viage de Espana, eight volumes 8vo.' There are twelve volumes of this work: the last four were published some

years after the first eight.

'Kæmpper's Japan, excellent.' Mr Pinkerton ought to have mentioned, that the English translation of this work, which was published by the liberality of Sir Hans Sloane, is very incomplete; and that the original entire work was lately published in French, and we believe in German, which alone ought to be consulted.

The maps, in the quarto edition, which are of the same size, ought either to have been lest out, or given on a much larger scale, separately, so as to have formed an atlas, of a size proportioned to the extent and importance of the work: as they are, they add considerably to the price, and little or nothing to the value of the book. The introduction, by Mr Vince, contains

every thing that the student should know previously to the commencement of his geographical studies. The latter part of it; however, which treats of the physiology of plants, and some branches of meteorology, we think superstudies; and it certainly is impersect, and in many respects incorrect. This part of the introduction, the Linnman names of plants, and the geographical discussions and conjectures interspersed in the larger work, are omitted in the abridgment: in other respects, it seems nearly a transcript of the quarto edition; and, from the comparatively small price and more convenient form, will be more generally useful.

ART. VII. Second Voyage à la Loussiane, faisant Suite au Premier de P'Auteur. Par Baudry des Lozières. 2 tomes en 8vo. pp. 824. Paris. Charles. An xi. 1803. (Mars.)

THE reader who should expect any thing like a book of travels from this title, would fall into a great mistake. These volumes have no pretentions to the name; and the only reafon which influenced the author in the choice of it is, that he formerly wrote a 'Voyage à la Louisiane.' The present publication is, in every fense of the word, a miscellany; and the only uniformity which it possesses, is the perpetual egotism of the author. Were it not for this constantly prevailing feature, we should never be able to conceive, at any one page, that the book before us had not been changed fince the last. The childishness of Citizen Baudry is indeed fo excessive, and so various, as to become amusing; and the entertainment is from time to time heightened by the reflection, that this singular creature is actually Historiographer of the French colony department. Unconnected as the different parts of the work are, except by the presence of the author, and large as the fubject is upon which he might have entered—the whole colonial affairs of the republic-we believe it would be difficult to diffuse matter more thinly over so great a space as he has contrived to fprinkle with fomething like information and reflexions. His effusions are, for the most part, only valuable as affording some curious specimens of the principles which feem at present to regulate the considential servants of the French government in their views of West Indian policy, and some striking instances of the total change which the last years of the revolutionary crisis have effected upon the general principles of Frenchmen. Here and there we meet with a fact of some importance, enveloped in a cloud of rant, fentiment, and excla-**VOL. III. NO. 5.**

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eloquence with which the very worst of the French writers occassonally surprise us. And sthough the levity and inconsistency which so strongly mark the characters, as well as the manners of that nation, form the predominant quality of the style, as well as of the matter; yet are we repeatedly consoled with a glimpse of sontiments very different from those which have lately been tolerated at Paris.

The motto-

4 Si canimus filvas, filvæ fint Confule dignæ,

is rather more applicable to the book than its title; for, though we find little about woods, there is a great deal in praise of the First Conful.

In the form of a dedication to those colonists who have been ruined by the revolution of the 'negrophiles,' our author contrives to give a life and character of himself; reminds these unfortunate people (ces êtres interessans, as he generally calls them) how he used to plead their causes for small fees; how he afterwards gave up the bar in order to fight for them; and how, for a small matter, they may see a full account of what feats his regiment performed, by sending to Benichets the printer, No. 142, rue de la Pomme, Toulouse. All this we conceive to be the seasoning which, he begins by telling them, flattery requires in order to render it palatable. The whole stattery consists in repeating what he has heard many Europeans say—that, had they been ruined like the colonists, they would have died of the spleen.

If fach is the style of the dedication, our readers will easily imagine what must be the tone of the presace, a department exclusively devoted, by immemorial usage, to the benefit of the author. It contains one piece of information which might well have been spared, but which is repeated at least half a dozen times, in notes, parentheses, and introductions, that this work was written while the printing went on. 'A mesure qu'on imprime, on ecrit,' is indeed one of M. Baudry's savourite boasts. This worthy eitizen's contentment with himself, is not more enviable, and not much more inexplicable, than his entire satisfaction with the measure of liberty enjoyed under the Consular administration. 'Under such a government,' says he, 'we are permitted to publishevery thing that is useful; and this amiable freedom demonstrates at once the intreasing strength of that government, and the rising sappiness of the people.'

With an evident allusion to Jaffa and Switzerland, he tells us, that France is now governed only by talents and spreases; and, in p. 335, we learn, that the Augustus of modera-

times has added Britain to his empire. The reconquest of Canadais a favourite scheme with our author: He talks of it as a natural consequence of the restitution of Louisiana to France; says that it may be effected the first favourable moment; and seems to consider the right of property as really inherent in the ancient possessions (p. 252.) Such was the language held by the writers belonging to the Consular government, at the very time when their master complained of the free essulons of the British press, as a breach of the pacific relations between the two countries!

But M. Bandry would not be fatisfied with encircling the United States by the acquisition of Canada and Louisiana. He plainly arows his opinion, that France is the natural mistress of all North America. He proposes the conciliation of the Indian tribes as a flep equally fure and easy towards the accomplishment of this project; and, mingled as usual with a large proportion of absurdity, we certainly do find, in this part of his remarks, fome matter of ferious reflection. Every one acquainted with the history of those favage tribes, knows how much more prone they have always been found to embrace the alliance of the French than of the English. The observations of Mr Burke upon this fact, are also well known. He afcribes it to the extreme foutleffe of the French character. M. Baudry does not fail to enlarge upon the theme, though in language somewhat disterent from that employed by our great English writer. And he mentions, apparently without any idea of its importance, a very striking circumstance, which demonstrates the systematic attention of the French rulers, at all times, to aid the favourable tendency of the national manners in conciliating the Indians. In the year 1798, he met a party of these people near Philadelphia. Their chief showed him a certificate, finely written, and figned Buonaparte; adding- You fee that I am a Frenchman, since Buonaparte has sent me a passport.' Our author afterwards learnt, that the chancellor of the French Confulate at Philadelphia had given the Indian this paper, on account of the enthusiaim which he showed for Bonaparte. This advoitness in gaining over friends, is one of the very few parts of the French policy which we should wish to see imitated by the governments of other nations. It may certainly be kept entirely Suparate from the ends to which it has been applied by the revolutionary leaders.

We have remarked, that the work now before us has not the smallest similarity to a "voyage." We may add, that it has little or no commexion with "Louisiane." The author confesses his love of digression to be irrestible; and apologizes for it, partly by an allusion to Montaigne, and partly by fairly telling us, that every mind, like every body, has its peculiar physicagnomy, and that he cannot change the nature of his. Accord-

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ingly,

ingly, above half of the first volume is occupied with the life of a M. Grondel, the oldest soldier in France; and it is only in digressions from this digression, that we find a few unconnected

remarks upon Louistana.

Nothing can be more calamitous than a biographer like M. Baudry, to a plain, respectable man, such as we perceive General Grondel to be, notwithstanding the ridicule in which he is unceasingly involved, by his friend's efforts to immortalize him. Through the whole of this narrative, we are unable to discover any thing peculiar in the deeds of the General, unless that he commanded an out-post in Louisiana, made several narrow escapes from the Indians, had a quarrel with the governor, and, from having lately been out of employment, has avoided being killed. Yet every triffing occurrence of this very simple life, is magnified into heroism; and the biography of such a man is a matter of firstrate importance—because, had his valour been exerted in Europe, he might probably have rifen to the highest stations in the republican service. It is frightful to think of the consequences which would follow, from the extension of this principle: we should have nearly as many lives written, as there are spent. Nor is General Grondel the only subject of eloge in this narrative. Our author's manner is, as he fays himfelf, (vol. I. p. 6.), fauter aves promptitude d'un sujet à un autre. In conformity with this principle, he gives a laboured eloge of the grenadier Regnisse, who carried M. Grondel away on his shoulders from a skirmish in which he was wounded. 'Glory for ever (fays our eloquent author), be to that incomparable Regnisse; that saviour of a young man truly interesting; that hero so worthy the title of grenadier! May his name be handed down to the latest posterity, and become the rallying word,' &c. &c. (p. 47. vol. I.) He is, of course, compared to the grenadier who saved the life of the First Conful. M. Grondel's father is also introduced, and praised for his address in deceiving the Indians. Many feats of this kind are recited; as, how he made them Velieve, he could burn the Miffiffippi, by flipping some brandy into a glass; how he cheated them with a wig ('a refinement of art, of which they had no idea') and thus faved his scalp; how he practised the old stratagem of the burning-glass, &c. 'Happy ascendant of genius and science (exclaims M. Baudry), it is by your means that mankind are led!' Our author having in the outlet warned us not to. be surprised at seeing him ' souvent causer avec moi-meme, ' seems inneed resolved not to let the preparative be lost. The discussions which he holds are very curious; they breathe that pure love of truism, which animates so many French reasoners. Thus the life of General Grondel is interspersed with acute arguments, to prove fuch

fuch positions as the following: That a shoemaker should not make pâtes; and that every man should keep in his place, in order to avoid confusion (p. 93.): that a lawfuit is a terrible thing, (p. 146.): that M. Baudry is no philosopher; and that the poetry in p. 374 is written by himself. Sometimes these truisms are delivered without the demonstrations; but preceded by a voilà, the French fignal for important discovery. Thus, voilà how a well placed firmness produces happy effects (p. 41.): voilà how small things may lead to great dangers (p. 30.) General Grondel having been presented at the Thuilleries, we have a long hosannah raised to the First Consul, the immortal descendant of heaven, &c. &c. This narrative concludes with a kind of furprise to the read-We are told, that, after all, General Grondel is not a hero. Why? because the Deity is the only hero in the universe! (p. 181). The General, however, we are informed, is, like old Silenus, full of gaiety; can repeat whole plays; excites the appetite of his friends, by his own hearty stomach; and shews incredible address in amusing the ladies by tricks.

The only good passage which we have met with in this singular piece of biography, is the following accurate description of the French character. It displays a greater degree of impartiality and calm sense, than our readers might be apt to expect from the au-

thor of the frippery we have been describing.

Cependant l'on se résroidit aisément sur le mérite des hommes. En France, surtout, où l'admiration va jusqu'à l'enthousiasme, on oublie bientôt l'utilité d'un homme précieux; on s'y accoutume à tout, on s'y lasse promptement de tout, et l'on y traite les matières les plus serieuses, avec cette légèreté qui fait le caractère national. C'est l'empire où il y a le plus d'ésprit, et le moins de reconnaissances. Le besoin du changement occasionné par un fond naturel d'inconstance, sait qu'on y donne au mérite, l'éclat éphémere d'un goût passager, et qu'il y subit les lois versatiles de la mode journalière.'

M. Baudry also deserves commendation for his constant detestation of that false philosophy which presided over the formation of the French republic. It is something novel to hear such language from a commis of that government; and, indeed, the cordial support which he gives to the present order of things in France, is frequently at variance with the more wholesome principles which he appears to hold upon political subjects. There is no great consistency in a writer who praises both Bonaparte and Louis XVI.; weeps over the horrors of the second year, and adores the atrocities of the consular government; cauts against the encyclopedists, and bends before the national institute.

Upon the subject of religion, we meet with the same inconsist-

dently from its political tendency. The atheilts are abused, after the usual doubts respecting their existence; and yet, the propriety of keeping the negroes in a state of idolatry, is strongly inculcated, because it diminishes the waste of animal food on the slave coast. The propagation of the gospel is consounded with 'philophisme,' while the Christian religion is recommended as useful to the colonies. In short, M. Baudry, when he touches upon the general questions either of liberty or of religion, is, like the greater part of his countrymen since the Revolution, obliged to use a language quite new in France, and he perpetually falls into the old irreligious dialect. We actually meet with the following curious exclamation, in a panegyric upon a man's christianity.

• Ainfi, qu' importe aujourd'hui à M. de St Laurent qui est mort, que la terre se ferme sur ses depouilles, que l'eternité et l'oubli le pressent de tout leur poids? Du silence de la vie il est passé au silence de la mort; mais son âme vit, et elle plane au milieu des delices sur le vide des choses humaines.

This mixture of creeds can by no means be imputed to fome of our author's effusions upon the subject of liberty. In these we meet with far more open and unqualified admiration of despotism, than any courtier of the Bourbons ever found it worth his while to display. Such transitions from the principles of late so popular in France, form, we imagine, a peculiar feature in the character of that fickle nation. After mentioning the new calendar, our author exclaims,

What do words fignify, provided one is a good Frenchman, and loves the government? The philosophers may do what they please, the people will never be enlightened. It will remain always a dangerous mass, prone to change its lights into conflagration; and our professions of the second year ought to be content with their experience. Too much light blinds and fatigues the class condemned by nature to live in darkness, &c. Vol. I. p. 88.

Language like this, a few years ago, would have fecured for the historiographer to the colonies, a station in Cayenne. A wise man would find it dissiput to pronounce, whether the tenets of that day, or of the present, are farthest removed from truth. The extremes of opinion, between which we have seen the French people vibrate, are perhaps alike erroseous, though not productive of dangers equally immediate.

That part of M. Baudry's work which relates to colonial affairs, least constant marks of the prejudices natural to a planter ruined to the negro infurrections; and the incongruity of these prejudices is often as remarkable as their number and obduracy. The

negroes

megroes are a race of inferior beings, doomed by pature to a state of flavery. Such is M. Bandry's fundamental principle; and yet he complains of the regular correspondence which the insurgents of St Domingo maintain with their brethren in Paris; inveighs against the sumptuous pride with which these men appear in the capital; and denounces them as dangerous, both by their numbers and their machinations, to the mother country. With all the horrors of the negro character before his eyes in the most exaggerated proportions, he proposes new schemes for increasing the flave traffic. While he acknowledges the impossibility of restoring tranquillity to the revolted island, without an extended system of military operations; and pretends, that at any time, a few factious whites have it in their power to raise whole colonies of negroes in rebellion; he is proposing schemes for increasing the black population, and extending the flave system to the new set-Truly, we affent to one proposition of our author, (p. 270): 'Je suis homme, et je suis, comme les autres, etampé de la foiblesse humaine.'

Now, supposing that tranquillity is restored to the French islands, our author details, at a most fatiguing length, his views with respect to their improvement. The necessity of ameliorating the structure of society in those settlements, he cannot deny; and from his verbose declamation in favour of certain general plans, we collect, that he confiders the chief defideration to be good magistrates, more especially in the judicial department. But, instead of pointing out any means by which this important want may be supplied, he gives a differration against men soliciting for places which they are incapable of filling; and exhorts all those who look towards preferment, to imitate his example, in refraining from the pursuit of places above their capacity. After good magistrates shall have been procured in confequence of these hints, he proposes that a picture of the Persian monarch staying the unjust judge, he placed in a conspicuous part of every court of judicature. He is decidedly an enemy to Juries in the colonies, and argues upon this point with fome acuteness. it does not at all appear how the fear of being forced to attend upon Jury trials would operate fo strongly in deterring planters from residence, as the manifold benefits of the institution would operate in rendering the colonies an agrecable abode. The example of the English settlements may serve to prove, that no serious inconvenience is likely to refult, even to the most industrious planters, from attendance to judicial duties. M. Baudry conceives, that mulattoes and negroes should be prevented from posselling plantations in great culture, and should be forced to reside in the neighbourhood of great towns, or other places of Arength.



He thinks, that all free negroes, and free people of colour, should, if not possessed of some property, be reduced to the state of day-labourers or soldiers; and proposes, that no mulatto nearer the negro than child of a quarteroon, should be allowed to learn reading and writing. All these plans of restriction appear to us utterly inconsistent with the idea of free negroes and mulattoes: nor can we imagine the possibility of ameliorating the state of society in those parts, without keeping the gradual abolition of slavery, and amalgamation of colours in view. If the free people of colour are to be oppressed by such regulations, while they are separated both from the whites and the slaves, the colonial government must expect a renewal of the scenes which first arose from this very quarter.

The plan of prohibiting taverns, at least for the slaves, seems liable to no objection. The evils of intoxication are certainly augmented by those places of resort; and when we are considering the remedies for abuses in a system of slavery, such an argument as this may be deemed sufficient of itself. It would, however, be difficult to suppress taverns for slaves, without also suppressing those for the free orders; and this unquestionably leads to many complicated discussions, the very existence of which M.

Baudry feems not to have suspected.

The necessity of attending to the state of the highways is enforced with some strength. It is farther proposed, that these should be planted with fruit-trees for the refreshment of the pasfenger, who would be prevented from abusing this indulgence, by the constant fear of the patroles. Our author's whole policy, indeed, is a strange mixture of liberty and restraint, derived apparently from the unnatural state of fociety in those slave colonies where he has refided. His ideas of commerce are fometimes fingularly unfortunate. He is for the Legislature interfering with what he calls the 'morality of trade; alleging that he has obferved avarice prevail very generally, both among the merchants and the shopkeepers of the colonies. In another part, he serioully propose, that the number of printers should be limited by law, in order to render them less needy, and prevent them from being fuch bloodfuckers to poor authors. We have here, at least, one instance of the restraints of the mercantile system, supported by those whose interests they attack; for the raiser of the commodity is actually abfurd enough to defire that his market should be contracted and his fales subjected to a monopoly. In one of his three lets of notes (posterieures, ulterieures, and paralipomenes), our author attacks Bryan Edwards with great vehemence, for his is presentions upon Citizens Ailhaud and St. Leger. He appears to fucceeded in freeing the former of these men from the hasty allegations



allegations of the English writer: But the sum of the defence urged for the latter seems to be, that he twice saved M. Baudry's life in the West Indies.

The fecond volume is, if possible, less peculiarly connected with Louisiana than the first; but it contains some information of confiderable value to West Indian colonists; as, a Congo vocabulary; a lift of medicines, with notes of their properties; a Botanical manual, and a variety of directions respecting regimen, the fruit of our author's experience in tropical countries. In a fcientific point of view, this volume is also entitled to notice. It presents us with a very curious account of the infect which produces the animal cotton. The process is fingular: A worm of considerable fize, which our author calls Porte-mouches, (well known to planters as the Manioc or Indigo worm), is, at one period of the year, attacked by fwarms of the Ichneumon fly. They deposit their eggs in every pore of the unfortunate worm, which now becomes a hotbed for hatching them. The infects, produced all at once, immediately spin each a very minute white cod, which envelopes The manioc worm is now covered with a white pod, which he, with confiderable difficulty, shakes off; and, in a few days, the infects are again hatched from it, but in the form of flies, leaving the animal cotton behind them. Our author describes this production as very abundant in all the colonies, and as poffelling great advantages over the vegetable cotton. It would undoubtedly be a most valuable acquisition to those plantations which at present suffer so much from the ravages of the manioc worm. M. Baudry's scientific observations, however, are not always so happy. He talks of the parabola described by falling stars, though with fome contempt of the vulgar, for giving the phænomenon that name; and he can fee only one difference between the phlogiftic and the modern system of chemistry, viz. the substitution of the term caloric for phlogiston.

The only other matter worth attending to in this work, is the account which it contains of the colonial chambers of agriculture, as new-modelled by the confular government. The object of this inftitution is the improvement of the whole body of colonial affairs. These Boards, by corresponding with their deputies at Paris, who form a council to the minister of marine, are authorized to denounce every abuse in the administration of the settlements. That some of the alterations on the inftitution are likely to produce beneficial effects, we do not deny. But it would be absurd to expect any material advantages from this system of espionage, when the members of each Board are effectively named by those whose

conduct they are appointed to watch.

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M. Bautry does not appear quite so constantly in the second, as in the first volume 1 but we have been malicious enough to derive some amusement from the frequent requirence of his lamentations over a Colonial Encyclopadia, in twenty-sive volumes quarto, which he had toiled at during eighteen years, and which he lost in the troubles of St Domingo. His argument, in savour of establishing a Board of ruined Planters (ces stres interessaus), to assist the government of the mother country with advice upon colonial assairs, is also somewhat original: 'If I (says he) alone, is the midst of my own ideas, without assistance from any other—without the least communication with a living soul—have been farnished with so many materials by my imagination, and my other intellectual faculties, what might not government expect from a whole commission of advices!' vol. ii. p. 345.

ART. VIII. Cours de Morale Religieuse. Par M. Necker. 3 vol. 8vo. Paris. 1800.

M. NECKER's former publications are very well known: though the attention they have excited is rather to be referred to their connexion with his short and eventful political career, than to their own intrinsic excellence. The singular title of the volumes now before us, led us to suppose that a considerable analogy might subsist between the author's former work on the importance of religious apinions, and the present course of religious morality. We have not been mistaken. The similarity in style, and in semiment, is indeed very great; although it must be consessed that the former is entitled to take the precedence on a more substan-

tial ground than mere priority of date.

The man, however, who acted so conspicuous a part at the commencement of the French revolution, and who may reasonably fatter himself that his opinions must still have some weight with the people whom he once governed, is certainly entitled to attention; especially when he speaks upon a subject of incontestible importance, and which he feems to have had very much at heart. Mecker, we believe, still resides at Copet, near Geneva; but the discourses here offered to the public are not addressed to his immediate countrymen the Swifs. He supposes himself placed in the heart of France; and it is to the peculiar circumstances of that country that this publication is accommodated, (Prel. Refl. p. 44 vol. i.) France, indeed, exhibits at present an aspect altocether new among civilized nations. From the beginning of the revolution to the year 1802, France may be faid to have had no seligious education, and scarcely any education whatever within the

the reach of her youth. The consequence is, that the most active part of her population, and nearly three fifths of her foldiers and failors, have attained the maturity of bodily strength, without any moral, and with very little intellectual culture. Inheriting all the advantages which are derived from the successful cultivation of the arts, and possessing every imaginable physical capabilier, a numerous nation of this defeription would be an object of terror, under any degrees of latitude or longitude; but must excite still greater alarm in the centre of the civilized world! That fuch men may gain battles, and, when stimulated by the hope of plunder, may aftonish or overwhelm other nations, has been sufficiently proved. But whether they can enjoy rational freedom at home, and discharge, in times of tranquillity, the duties of good citizens, is yet to be tried. Constitutional liberty, indeed, is now out of the question: and M. Necker seems to have had a prophetic incimation of the state of the government, when, in the year 1708, he declared-

It is not, indeed, the reeftablishment of our ancient slavery in its former shape which we have now to dread, but the approach to it in a disguised form, as soon as it shall be discovered that the most vigorous exercise of authority is unable to restrain a people who have shaken off all religious controul. The silence and subordination of slavery will be attained, by raising and maintaining immense armies; by silling up their ranks with our young men; by making those young men exchange the conslict of other passons for the rigour of military discipline; and by employing those armies, in all their violence and energy, to inspire universal terror. What a sad substitute for religious morality! What an exchange for that authority, of which the injunctions were so mild, and the exercise so indulgent! How dreadfully have we been deceived? Prelim. Rest. p. 24, vol. i.

The avowed defign of M. Necker's work, therefore, is to counteract the operation of this tremendous evil, and to revive religious impressions in France, by an appeal to the united powers of reason and revelation. In this design, every good man will wish him success, though many will doubt if he be qualified to obtain it. He divides his course of religious morality into five sections; in all, containing twenty-nine sermons. The first section has four sermons, which treat of the bases of natural religion and morality. These sermons are on the existence of a God; the union of morality with the divine perfections; the doctrine of a Providence; and the immortality of the soul. The second section discusses the duties common to all men, such as truth, justice, charity. The third section is taken up with the relative duties of the different ages and situations of social life; such

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fuch as those of husband and wife, parent and child. The fourth contains fermons on the sentiments and habits of mind which render men guilty or miserable; as, envy, vanity, ambition, &c. And the fifth and last section treats of the Christian religion, and

of irreligious systems.

He does not touch on any of the peculiar doctrines of Christianty; nor does he enter upon any investigation of the external proofs which are usually adduced in support of the Christian scheme. The internal evidence is only casually glanced at. He appears indeed to have assumed the Christian character, rather from a sense of its utility or expediency, than from a conviction of its truth; and his sermons are to be considered as desistical

effays written in a Christian country.

M. Necker explains his motives for adopting the plan just mentioned, in fifty-two pages of preliminary reflections, which are better written than any other portion of the work. He feems to think that his method is new, because the discourses have a fort of connexion with one another, and because he draws from natural religion alone the authority of his instructions; and contents himself with hinting, in a very general way, at the aid which Christianity affords them (Prel. Refl. p. 43. vol. I.).— There is certainly nothing new, or very meritorious, in all this arrangement; and it is indeed inconfiftent with the author's eulogy on Scripture in p. 40. It is equally inconfiftent with the Supposition, that the discourses are addressed to a popular audience in France. He does not specify the rank or education of his supposed hearers; and, while he says that he considers himself as preaching like an aged pastor to a popular audience, he confesses that he has not omitted any philosophical reflection that occurred, and that 'his fuccinct code of religious morality is to be diftinguished from other collections of sermons, by its being intended to be read, and by its containing a connected train of moral and religious instruction.' (Prel. Refl. p. 44.)

This is challenging a more rigorous criticism than, we are afraid, M. Necker is able to stand. The greater part of his discourses are composed in so dissued and declaratory a style, as could only be justified by the design of pronouncing them in a popular assembly; and even upon this supposition, they will often be found desicient in dignity and consistency of expression. To us, indeed, it appears that he sometimes, in his introductions to his discourses, dreams of addressing a numerous and motley audience; but, in the course of his sermon, many are perceived to sall assep, or to slip out of the church, until at length he sees only a couple of politicians or salse philosophers, to whom he addresses himself for a long time, in a whining strain of lyric voci-

feration; and then concludes as he began. Making every allowance for his good intentions, how shall we reconcile some of the following passages with M. Necker's judgment and good sense?

In order to prove the existence of a God, he makes choice of Exodus, ch. 3. v. 14. for his text, (our author preaches, like others, from texts of scripture)—' Je suis celui qui suis,' a still worse translation than our ' I am that I am;' and breaks out into the following address:

'How great, how imposing is this expression, for giving us an idea of the Essence of the Creator and Master of the world! It is as if he had said to the children of Israel, and by them to the whole earth—No definition, no image, can explain to your minds, or represent to your senses, an eternal Being, who has placed an immense distance between himself and the highest period of your moral faculties, between himself and the last boundary of the researches and conquests of genius. Yes, the heavens of heavens are between God and man,' &c. Vol. I. p. 3.

Now, whatever the idea may be, the mere French expression. Je suis celui qui suis, is neither more nor less than an identical proposition. It is neither great, therefore, nor imposing; nor does it give any idea of any essential estate.

Amidst his other exclamations of wonder at the greatness of the works of nature, which he considers as a conclusive proof of the being of a God, we find the following satisfactory resection:

O prodigies! prodigies! and which surpass our understanding!— But every thing is done, every thing is explained in the universe by two eternal principles, the Almighty power of its Master, and his immense beneficence. Vol. I. p. 14.

And afterwards,

We may perceive the fystem of final causes developing and extending itself in an universal manner, with as much regularity as precision. Vol. I. p. 21.

This precise development of all final causes, must undoubtedly prove very consolatory to the minds of M. Necker's disciples In truth, whoever peruses this discourse on the existence of a God, will find neither philosophical reasoning nor scriptural authority in his matter; nor in his style, that clearness and simplicity that is requisite in so high an argument; but must rest contented or discontented with a goodly assortment of 'les grands mots qui épouvantent l'oreille.'

In his discourse on Providence, the author says,

the had shown that morality was founded upon our knowledge of the perfections of God, upon our knowledge of the perfections of a Master.

Maker, whose eyes are too pure to bear the fight of evil. ' Val. 1: p. 65.

This, however, is more, we apprehend, than the author had shown, or could show. The acknowledgment of any perfections in the Divine nature, and confequently of the existence of a good principle and of a Providence, implies a power of moral diferimination already existing in the human mind. This moral faculty cannot therefore be faid to be founded upon our knowledge of the perfections of a God. On the contrary, it is only by attending to our own moral perceptions that we can form a conception of what the Divine attributes are; and nothing is more plain, than that, without fuch a power in ourfelves, we could not diffinguish perfection from imperfection. We willingly admit, indeed, that our belief in a God, in a superintending Providence, and in the other falutary doctrines inculcated by fcripture, or fuggested by reason, yields consistency and great additional strength to our moral perceptions; but it cannot be urged that these perceptions are founded upon that belief. Although external objects exist independently of our senses, yet without these senses, they would have no existence for our minds.

M. Necker proceeds to one of the most important of all doctrines, the immortality of the human soul. He divides his proofs into two heads: 1. Those which arise from the persections of the Divine Being; and, 2. Those which refer to the nature of the soul itself (vol. I. p. 97.) Neither of these is systematically solutioned out, nor indeed illustrated by any reasoning which deserves attention. He seems, however, to have sorgetten this two-fold division in p. 120, where we find him saying—

The nature of our mind (fprit), the mystery of our conscience, the involuntary homage we pay to moral ideas, the frequent oppression and misery of good men, and, above all, the goodness, wisdom, and infinite power of the Supreme Being; these are the considerations which support our hope in the precious doctrine of the immortality of the soul. Vol. I. p. 97.

The arguments deducible from the nature of the mind itself, are not stated by our author in any order, or urged with any ingenuity. There is no topic, indeed, upon which he appears to less advantage, although it seems to have been his favourite speculation. Instead of dwelling upon our natural desire of immortality, the fullings of remorfe, the progressive improvement of our faculties, or the analogy of the material world, M. Necker confines himself, in a great measure, to the negative argument derived from the immateriality of the soul, and to another argument, which is of so singular a nature that we must lay it be-

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fore our readers in M. Necker's own words. He very properly calls it new, and announces it in this elegant fentence:

Meanwhile, it is our duty to present you with a new motive of hope. We still search for it, and we still find it in ourselves, in this sublime nature, where so many phenomena are reunited, and where we distinguish the impression of the Divine seal, better than in any other of its (nature's) magnificent conceptions.—We love !—we know,—we desire to love! Yol. 1. 120.

He goes on in this rapturous strain for a very long while, and uses many high-sounding sentences to shew that the power of leving is a pledge and proof of immortality. Then he asks,

Is not this fentiment, which transports us into a beloved object, and which places in it all our interests; is it not the image of a second life? Is it not the symbol of our continuity with a new effence? Vol. 1. p. 122.

This argument is certainly entitled to the praise of novelty. We cannot easily determine, indeed, whether it has been exceeded, in point of purility, by any former argument on a serious subject. But it is not only to those who have had lawful opportunities of loving in this world, that the benefits of this new argument are to be extended. The humane preacher is pleased, very politely, to assure old bachelors and old maids, that they too shall have their share in it.

Ah! Ye also have similar vows to make: ye tender friends, loving souls, and who have never been able to find on earth an affociate, worthy of the delibacy of your sentiments, console yourselves; live in hope; there will be for you a futurity, in which the perfection of your nature. Shall find its counterpart. Vol. I. p. 126.

If we turn from the author's reasoning to his style, we shall find that they are both equally desultory and unsuitable to the purposes of grave and manly instruction. In the beginning of a sermon upon Death, for instance, we have a specimen of his manner of introducing himself to his audience.

Death! Death! What a name I am pronouncing! Death! All flies, all disappears before it. What a dismal and terrible image am I about to offer to your thoughts! The spring has painted our fields, the earth is adorned with new splendour, the flowers, the plants, the bushes, our gardens, our meadows, all is animated; all is embellished! Death! and shall you, ' &c. Vol. III. p. 152.

What shall we say of this introduction to a serious sermon upon Death, by an aged philosopher and man of the world? One would almost be tempted to reply to the boyish preacher, in the language of Malherbe. La Mort a des rigueurs à nulle autre pareilles;
 On a beau la prier;
 La cruelle qu'elle eft, se bouche les oreilles,
 Et nous laisse crier.

In truth, the greater part of the discourses, we are afraid, will be deemed, by severe critics, mere common-place sermons; remarkable for nothing but an unusual quantity of truisms, filly exclamations, barren thoughts, entangled with metaphysical sophistries, and hyperbolical phrases, beyond even the present puerile

style of French declamation.

It is unpleasant to dwell on the omissions or absurdities of a well-disposed man; and more particularly in cases where he professes to promote the cause of good order, religion and morality: but it is a duty to rescue that venerable cause out of the hands of unskilful advocates, and to point out to others the untenable posts in which they were defeated: Quid enim tam necessarium quam tenere semper arma, quibus vel tectus ipse esse possis, vel provocare integros, vel te ulcisci lacessitus? Whether men contend with the weapons of argument or of steel, judgement and arrangement are equally indifpensable; and in both cases it may be truly said, that an open enemy is less to be dreaded, while standing in the hostile ranks, than a cowardly or undisciplined friend in our own. Necker, by his injudicious disputations, has exposed to the scorn of every fnecrer, his arguments from reason, on the very important doctrines of 'The Existence of a God;' 'The Foundation of Morals; ' and the ' Immortality of the Human Soul.' We do not know that religion could have been more injured, by a direct attack upon the evidences of revelation.

While, however, we regret that M. Necker should have wasted so much of his time in writing sermons; and while we condemn his declamatory style, and reprobate his unphilosophical reasonings, we acknowledge, with pleasure, that some detached passages have renewed our old feelings for 'the honest man, and the man of virtue and genius.'* If his sentiments are not always expressed with the precision, arrangement, and accuracy, which we might expect from a regularly trained preacher, or even from an accomplished sinancier and statesman, like Necker; yet they are always amiable and humane. Humanity is the characteristic of his writings; and it is impressed on all the sermons contained in these volumes. The eloquence and spirit of the following passage claim

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They, (the violent revolutionis of France,) they have made of merit a subject of proscription; of the laws, an instrument of hatred;

^{*} Vide Gibbon's Posthumous Works. 4to. Vol. 1. p. 213. 222.

of Equality, a preparation for tyranny; of the word Liberty, the badge of flavery; of maxims of morality, a language of hypocrify; of religion, an infult to the Supreme Being; and of the pureft blood, the most execuble orgies. Political passions, how terrible ye are! Nothing restrains you; nothing retards your impetuosity; and you reckeon the lives of men but a trising facrifice for the object which you wish to attain. Litten to those orators, who, with hands recking in blood, would inspire a whole nation with their own destroying sury! One said, we cannot offer too many victims to Liberty; another said, too many cannot be sacrificed to Equality; another, to the principles of the rights of man; another, to the mystic dogma of the sovereignty of the people; and, finally, another professing, from hips soaming with rage, the love with which he feels himself instance for posterity, will sacrifice to this pretended love, to this hypocritical sentiment, every individual of his contemporaries! Vol. I. p. 138.

Nor is it merely in fuch descriptions, and in the reprobation of revolutionary and political violence, 'quorum pars magnafuit,' that M. Necker is lively and interesting. There is something very touching in the following description of the concluding scene of a young soldier's life:

- Alas, had you feen those young men, ye tender fathers, ye affectionate mothers! Behold your sons thrown down, and lying trampled in the dust by the hoofs of their comrades' horses: lest bleeding amidst turious squadrons, who pay no attention to their groans: carried at last to hospitals, where the numbers of the wounded render affishance impracticable; where novices in surgery serve the apprenticeship of their art, amidst hurry and interruption, and the agonizing cries of their unhappy patients. Your miserable son wishes be had perished on the field of battle; regrets the fond tenderness you showed him in infancy: he remembers the last embraces of the authors of his being; he looks about him, and sees, in the moment that remains of life, the mutilated limbs of his companions scattered around—and that his own grave is preparing. Vol. I. p. 153.
- If M. Necker deserves the censure which has been sometimes passed upon him as a flatterer of the French nation or government, it is not, at least, in the following passage:
- Ah, let us respect the opinions of other nations, not in order to grieve us, but to support our wisdom and our modesty: Let us give no cause to this reproach fixed on us by some. You wished to dictate laws to the universe, and you cannot regulate your own domestic concerns: You wished to give plans of government to all nations, and your own plan, full of the greatest errors and imperfections, is an inexhaustible source of factions: You have indeed shown yourselves abroad as roaring lions, but you have been miserably tame at home, and you you. 111. NO. 5.



crouch under the rod of despotism: You have already ealled yourselvesthe Great Nation, and you see no other people disputing this title: But the extent of a country, and the number of its soldiers, may strike its neighbours with terror, without creating respect. Vol. I. p. 281.

The following passage describes, in a natural way, the feelings of a man of nice sensibility, immediately upon his fall from a station of high rank and power. To these feelings M. Necker was no stranger: and we pity his misery, when he answered Mr Gibbon—' dans l'état où je suis, je ne puis sentir que le coup de vent qui m'a abbâtu.'

It is to you I address myself—ye who were lately in possession of the surest means of pleasing, and of captivating men. You were believed to stand on the summit of authority; through you every savour was dispensed: You were objects of universal pursuit and attachment; when, all at once, fortune overturned your pedellal: You are cast down into the crowd; you have neither rank, nor credit, nor power! How do your friends, even your real friends, then act? They come around you, condole with you, and perhaps redouble their cares and attentions:—but there is a correctness in their care, an attentiveness in their manner, and a measured proceeding in all their conduct. They delicately conceal the idea they have of their generosity towards you: meanwhile, you yourself either discover or suspect it; and you are stung to the soul. You are conscious that, in the eyes, even of friendship, a change has taken place in you; and that you must take care to be cautiously discreet. Sad discovery! Acc. Vol. II. p. 17.

Of M. Necker's prefent work, the most useful part, in our opinion, is that which treats of irreligious systems. He dwells at considerable length on the formidable arguments against Christianity, which are supplied by the absurdates and crimes of its professors. His endeavours to prove, that the abuses of that humane system do not militate either against its beneficent tendency, or its actual good effects, are not destitute of ingenuity. He had associated long and intimately with freethinkers, and knew the objections to the Gospel, which they urged with most triumph and most baneful effects on the minds of the young. These he combats with some energy; and he persuades his readers to the reception of Evangelical morality with affectionate earnestness.

* The exaggeration and the abuse of useful truths, can exist only until these truths are proscribed or brought into discredit: but when a possenous plant affaches itself to a true which yields abundance of good fruit and shelter, is it the tree we are to extirpate? Vol. III. p. 262.

We might felect many other respectable passages from the work before us; but those already quoted are a sufficient specimen of M.

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M. Necker's pulpit eloquence. The fermons feem to have cost him little trouble: indeed we were fometimes tempted to believe that he has only lent his name, or partial aid, to an inferior performer. But whether this be the case, or that M. Necker has written invita Minerva, certain it is, that the discourses before us. while they evidently appear to proceed from the best intentions. and although they contain fome scattered fragments of arguments and of eloquence, betray a grievous decline of judgment, perspicacity, and logical discrimination, in their responsible author. do not helitate to warn young persons against a partiality for such flimfy compositions. They are very much in the present fashionable and false continental style. An impersect view of the system of religion is given; and, instead of a sober elucidation of the evidence upon which it rests, or a persuasive enforcement of the moral duties which it recommends, we have exclamations and loud affertions, and strainings after sublimity and pathos, that excite the ridicule of the prophane, and the regret or difgust of the pious.

This manner of preaching may, like the present terrific mode of novel writing, rouse the curiosity of the idle; but it can neither remove doubt, nor influence conduct: And those who place considence in the course of religious morality published by M. Necker, in the hope that it can enlighten their reason, or fortify their faith, will soon join in the candid and mortifying confession—

A peine, du limon où le vice m'engage J'arrache un pied timide et fors en m'agitant, Que l'autre m'y reporte et s'embourbe à l'instant.

ART. IX. A New Anatomical Nomenclature, relating to the Terms which are expressive of Possion and Aspect in the Animal System. By John Banclay, M. D. Lecturer on Anatomy, and Honorary Member of the Royal Physical Society, Edinburgh. Longman & Rees, London. 8vo. pp. 182. 1803.

A CHANGE in the language of any science, is rendered necessary, either by the sudden acquisition of new information with respect to its fundamental truths, or by the gradual accumulation of various dialects, partly founded upon theories, partly decrived from accidental peculiarities in the situation of discoverers, and the consequent introduction of ambiguity and error. Both these circumstances concurred to warrant the great and beneficial alteration which the nomenclature of chemistry has lately undergone; but it is in the latter, only, that the necessary of a new gnatous mical-vecabulary can be found.

The purposes to which a systematic plan of nomenclature is subservient, are threefold: It adds to the regularity and beauty of the science; it facilitates the business of instruction; and it affects us in the discovery of new truths. Upon each of these distinct objects, a few preliminary remarks may be permitted, as leading to an illustration of the principles on which all such

. fichemes as the one now before us ought to proceed.

The pleafure derived from the contemplation of abstract relations, forms by far the greatest part of the inducement to scientific refearch. There is unquestionably a delightful sensation in the discovery of resemblances that are unexpected and not easily perceived—a fensation entirely unconnected with any view to the useful consequences which may be deduced from the knowledge of the new truth. The perception of the relation between the hypothenuse and the sides of a right-angled triangle, is as agreeable to the mind, as the knowledge that, by this celebrated discovery, we are enabled to guide the course of a ship in the pathless ocean. Nay, the perception of unexpected practical utility itself, is pleasing to those who have neither any chance of receiving the benefit, nor any capacity to sympathise with others. A man who studies the laws of the celestial motions, seldom thinks of the ultimate advantages to which his inquiries may lead—the conftruction of tables useful to the navigator. He is satisfied, that he discovers the certainty of a simple and easily comprehended relation, which was not previously supposed to exist.

One great merit of fuch discoveries, then, is the neatness of the form in which they are capable of being presented to the mind. This is, indeed, the greatest excellence of any scientific proposition, if we except the apparent dissimilarity of the objects compared. No pleafuse would be derived from a demonstration, however clear, that the three angles of a triangle, if each of them is two thirds of a right angle, are, together, equal to two right angles. The identity is here too obvious, and the discovery of it could give no fatisfaction, unless to beings of faculties much more dull than the human. But it would be equally impossible for us to derive any great pleasure from the enunciation of a proposition, however general, in which a relation is affirmed, after a variety of assumptions, and new definitions, and previous demonstrations of lemmas. We might be reconciled to the labour of following fuch a chain of reasoning, by the idea, that it ultimately led to consequences practical importance; but, for its own sake, we should certainly feel little interest in the discovery. This neatness, or concileness and simplicity, with which we can enunciate and denientrate a truth, furpriling either by its generality, or the number of the steps required for reaching it, constitutes what is : 44 called

called the elegance of any scientific discovery; and the elegance of a fystem is, in like manner, the regularity with which its departments are ordered, and the fimilarity of their connexions with the fundamental principles. The concile and simple expression of this regularity, in the structure of the language appropriated to describe and enumerate those various parts, is productive of the fame fatisfaction, and completes the agreeable uniformity; while it enables us to enjoy the same kind of pleasure in scientific details, that we receive from beauty of flyle in works of imagination. The pleasure derived from mathematical speculations, is furely in a great measure owing to the simplicity and uniformity of the nomenclature which the science of necessary truth emplovs. The higher geometry, for inftance, would cease to prefent us with fo many interesting objects of contemplation, if the analagous parts of different curve lines were known by different names, and parts entirely diffirmilar were, from certain infulated cases of coincidence, permanently confounded under the same appellations; if (e.g.) the affymptote were fometimes denominated the focus, or if the tangents of whole orders of lines were called fecants, because those of some curves cut the arcs which they do not touch. The pleasure derived from the study of modern chemistry, is, in the same manner, augmented by the systematic nature of the new language. With all its faults, that danguage does not confound fimple and compound bodies, nor diffinguish substances entirely analogous. Many of its terms have indeed been objected to as changes too violent, upon words meant to denote ideas of very frequent recurrence. are told that common falt is a better name than muriate of foda; and furely, in the fame manner, round would, in ordinary life, be a more convenient because a more familiar expression than circular, and oval than elliptical. But if the other compound falts are diffinguished by the union of terms denoting their component parts; an agreeable uniformity, in a scientific point of view. refults from the extension of the same principle of nomenclature to that falt which is most commonly used, although it may retain its old name on ordinary occasions; just as it is more agreeable to denominate the ellipsis from the property analogous to those of the other conic fections, although, in common life, we give it a name derived from the elliptical body most frequently met with; and to talk of the ordinates and affymptote of a conchoid, although masons speak only of the diameter and shaft of a column. In fhort, all science consists of classification; and the plans now under confideration, are founded upon verbal arrangement, while they keep the classification of ideas constantly in view.

But, great as the use of a systematic nomenclature is, in promoting the most important end of all speculative pursuits—the abilitact pleasure of contemplation, its advantages are still more apparent in facilitating the acquisition of knowledge. The learner has in fact only to fix in his memory the few leading principles of the language, and he can from thence easily deduce the particulars of the vocabulary. He has thus at least one general medium of connexion, one species of affishance to the recollection of the fubordinate relations, which he may afterwards learn, between the things fignified, over and above those other helps which are common to all kinds of nomenclature. It may, however, be remarked, that where the objects of discussion are of constant occurrence, and are necessarily known by their vulgar names long before the student has occasion to view them in a scientistic light, the fystematic nomenclature throws some little difficulty in his If the great body of instruction, too, is only to be found in authors who have used an irregular language, the acquisition of the science, by means of the new-modelled nomenclature, may render that instruction inaccessible, or at least create the necessity of a double labour in the acquisition of terms. The science of anatomy is in this predicament; and Dr Barclay has therefore proceeded much more cautiously in proposing alterations, than the French chemists found it necessary to do in changing the nomenclature of a science which had itself undergone so sadden a The new fyitem of measures seems fated to experience unfurmountable opposition, for this very reason. It may be possible, after learning chemittry or anatomy in a new language, to acquire the synonymes of the old: But, as no human memory can retain the combinations of numerals, the whole fystems of preceding calculators must either be utterly useless, or they must be wrought over again upon the new principles.

It is by no means necessary, for the assistance of the learner, that the name of an object should be descriptive. On the contrary, if we consider how often descriptions proceed upon theory, and how seldom they apply distinctly, we shall be inclined rather to pronounce, that the framers of a scientisic language thould take the other extreme; and instead of always attempting to denominate an object by its peculiarities, should distinguish it by its known relations to other objects, making the roots of the whole insignificant words, or words in vulgar use. The French chemists have been singularly unfortunate in their choice of roots, however excellent their principles of combination. Although we know only of one species of air which can either support animal life or slame, they have named it by another property, which it shoes not appear to possess a secusively. And they have distinguish-



ed another species by the quality of destroying animal life, although this is by far the most ordinary property of the gases. In the same manner, they have rejected the term inflammable air, and fubilituted one which describes a quality not peculiar to a fingle gas. A variety of other objections to the descriptive method adopted in the chemical nomenclature, will immediately occur to our readers. But, in fact, whatever terms may be used as the foundation of any nomenclature, the derivation foon ceases to be thought of. No chemist, when he uses the word azote, ever stops to consider how fatal that substance is to the lungs. The material point is to have the combinations uniform, and, where it is possible, to choose such radical words as are in common acceptation; or, if new ones must be coined, to adopt such as are easily remembered; and to proceed in the choice upon no The scheme proposed by Dr Barclay hypothetical principles. meets with our approbation, in proportion as he appears to have been guided by a regard to fuch confiderations. The following remarks upon the nomenclature of the muscles, suggest instances in the old language of Anatomy exactly parallel to those which we have taken from the new French system.

· Some names are a kind of descriptions, pretending to explain uses and functions, which those who imposed them did not understand. all cases these descriptions are extremely imperfect; often are falle: and should we credulously receive them as complete, and proceed to reason upon them as data, they must always lead to erroneous conclu-On this principle, fome mufcles are named pronators and fapinators of the radius; fome flexors and extensors of the carpus; as if these were the only muscles concerned in performing such movements. Now, every anatomist certainly knows, that all the digital flexors and extensors that arise from the humerus or fore-arm, must likewise be flexors and extensors of the carpus; that the sublimis, the radial flexor, and palmaris longus, affift in pronation; that the Impinator radii longus brings the arm to the middle position, between pronation and supination, and then acts as a flexor of the fore-arm; that the biceps, attached to the frapula and radius, is an extensor of the humerus, a flexor of the radius, and one of the most powerful of its supinators; while other muscles, as the extensor tertii internodii pollicis, although indirectly, occasionally assists it, in that office. From the variety, therefore, of functions, in which mufcles attached to the bones are ufually concerned, every name imposed with a view to denote these functions, must either be uncommonly long, or extremely imperfect, with regard to description. ' p. 11. 12.

The last great use of a systematic nomenclature—the promotion of new inquiry, is too obvious to require any illustration. Whatever contrivance simplifies our vocabulary, must of course leave

the mind more at leifure for the comparison of ideas. A systematic language actually saves, in every process of reasoning, a variety of steps. These steps were gone through by the inventor of the general method, for all the subordinate cases; and the inquirer, who wishes to carry the detail farther than his predecessors have done, needs only carry on the application. What, in fact, was the grand change effected upon geometry, by Des Cartes, but the introduction of a new and general nomenclature into that science?

In the introduction to the work now before us, Dr Barclay points out, at some length, the various evils arising from the ambiguity of the terms at present used in anatomical description; and offers some very judicious remarks upon the plans of imprevement proposed by other authors. We extract the following observations, on the scheme of Dumas, to name the nerves from their origin and termination, as a very savourable specimen of our author's acuteness, and talent for illustration.

· He proposes to diffinguish the trunk (of the olfactory nerve) by the term fleiato-narinal; the division which terminates at the ethinoidal bone, by the term flriato narinal-ethmordien; and the part which is ramified on the petuitary membrane, by the term striato-narinalpituitaire. This tirefome repetition of the name of the trunk, in the names of all the divisions and branches, would not only be exceedingly cumbrous, but unnecessary. In the system of Linnæus, man belongs to the genus home, to the order of primates, and the class of mammalia: but did it ever enter the mind of that naturalist to suppose that the genus would be better expressed by the term mammale primas homo, than by simple homo taken by itself? A name is one thing, classification another, and description a third. From not making this necessary distinction, Dumas, in trying to impose names, is constantly labouring at a fort of claffification and description; so that his descriptions are often bad names, and his names more frequently worse descriptions. p. 31. 32.

Before entering upon the immediate subject of the Essay, Dr Barclay discusses the general topic of Language, its kinds and changes, at a length perhaps somewhat unnecessary. The object of these preliminary chapters is to illustrate the intimate connexion between spoken and written language, and to enumerate the various circumstances which render both subject to perpetual sluctuations.

The third diapter is employed in shewing, that the language of science should be distinct from that of the people; and the tourth contains our author's general ideas upon the changes of anatomical nomenclature.

The three last chapters are occupied with a detail of the changes which he recommends.

The following is a general outline of his plan.

In describing the vertebral column, anatomists call the bone nearest to the head the atlas, and the mass of vertebræ at the opposite extremity, the facrum. In systematic connexion, these occupy corresponding regions, in all animals in which they are Dr Barclay therefore proposes the words atlantal, and facral, instead of superior and inferior. Instead of the words anterior and pefferior, which are used to express the breast and the back in all animals, the terms flernal and dorfal are suggested. The words dermal and central, denoting what points to the ikin, and what to the centre, or peripheral and central, when speaking of an organ, are fubilituted for external and internal, when they fignify what is superficial and deep. When they are employed to express the fide or middle of a furface, suppose a plane to pass along the middle of the neck, the mediastinum and linea alba, and to divide the neck and trunk into fimilar halves, from the ffernam to the dorfum, and let this plane be denominated mefion in the words lateral and mefial will, in fuch a case, convey the meaning of external and internal. Right and left might this denote the lateral parts of the trunk, but deviral and fir firal are thought preferable, for the reasons assigned in the general observations on language.

Much ambiguity has arisen, from using the words right and left, anterior and posterior, in describing the different parts of the heart. To avoid these inaccuracies, Dr Barclay proposes to divide the vascular system into two parts; to call one systemic, the other pulmonic; expressing by the former term, all those vessels, whether arteries or veins, which convey the blood from the lungs to the different parts of the body; and by the latter, those vessels which convey the blood from the system at large to the lungs. Thus the pulmonary veins, the left sinus, auricle and ventricle of the heart, with the act ta and all its branches, will be called systemic; while the bronchial veins, the veins of the head, heart, trunk, and extremities, the right sinus, auricle and ventricle, circling the pulmonary arrery and its branches, will be distinguished by the

epithet pulmonic.

Besides removing ambiguity, says our author, another advantage that naturally arises from this change in the nomenclature is, that initead of being obliged to enumerate the vessels in which the purple or the vermilion blood is contained, we may say at once that the purple is contained in all the pulmanic vessels, and the vermilion in all the systemic, whether veins or arteries.

The extremities are to be distinguished by epithets borrowed from the regions of the trunk with which they are connected.





to distinguish the ends of these bones by the terms proximal and distal, according as they are near to, or at a distance from, the ettank. The atlantal extremities again are subdivided into radial and ulnar, to signify the two lateral parts, and into anconal and themal, to express the other two sides.

Dr Barclay next proceeds to shew, how a similar division and

arrangement may be applied to the facral extremities.

These new terms, in general, are entitled to the praise of great Elearness and simplicity, though we are inclined to doubt the possibility of bringing them into general use. If there be any of this new nomenclature, confidered as a theory, in which we Attould be inclined to differ from the author, it is that which Yelates to the vascular system. The division of the circulation into two parts is judicious: and Bichat (tom. 2. Anatomie Generale) we find has made a division, in all its effential parts, precisely the fame; and has alleged fimilar reasons for making such an alteration. This coincidence may be confidered as fortunate, while it thews the propriety of making some change. The few objections that we have to make, are to the terms systemic and pulmonu, which not appear so happily chosen, as the others which Dr Barclay has fuggetted. These terms, when applied to the heart alone, express distinctly the two different parts, the auricles and ventricles, in man, and the mammalia; but when they are extended to the other parts of the fystem, and to the lower animals, ambiguity feems likely to arise. In the first place, it may be remarked, that the centre of circulation is made to rest in the lungs, and not in the heart, as hitherto supposed. This is implied, by the new words, which express the carrying the blood from the lungs to the fystem, and returning it to the lungs, from the fystem at large. Now, the circulation of the blood differs according to the different structure of the heart, and the organs of respiration, in different animals. In the amphibia, and in fishes, the heart has only one ventricle and one auricle; and in infects, and fome of the vermes, only a ventricle, and no auricle. Indeed, our author remarks, 'that the veffels of their lungs (the amphibia,) in some measure correspond in function to our bronchials; and that their blood, undergoing a change from the action of the air, is entirely confined to systemic veins. ' (p. 124.) Hence it appears, that there is no foundation for this distinction into two sets of v. siels, named with reference to their lungs, which in these animals have a small share in the circulation, and in insects and the vermes still less, where the blood undergoes fome falutary changes from the spiracula, which are extended over all parts of their bodies. It may be faid, that these terms are not intended for the amphibia, reold-blooded animals, but are calculated to express the differ-



ence between them and animals with warm blood. But is not this in direct opposition to the plan and intention of the author, who proposes to adopt terms which will admit of a general appli-

cation to all parts of the animal kingdom?

Some difficulty strikes us, when we apply these new terms to the fætus in utero. In this case, the right auricle and ventricke muit be called both pulmonic and systemic; because the auxicle fends fome of its blood through the foramen ovale, and the ventricle through the ductus arteriofus, to the lystem at large. To any one already acquainted with the difference between the circulation in the foctus and the adult, this may appear intelligible; but it doss not feem calculated to fimplify the description of this intricate part of anatomy, or to render it more cafily comprehended by young students. The vessels which convey blood from the lange, to the fystem at large, form but an inconsiderable part of the circulation in the feetus, and therefore deserve not the title of fyftemic, according to the definition which is given. The umbilical wein would rather lay claim to this epithet, as it carries blood of a red colour, after it has undergone some necessary changes in the placenta. The vena porta, too, will be both a systemic and pulmonic veffel; because it serves indirectly to convey the blood from the lungs to the liver, for a purpose very important to the Tystem at large, the secretion of the bits; while, at the same time, it conveys a confiderable portion of blood from the abdominal vifcera to the lungs. It may be objected, that the hepatic artery is the systemic vessel of the liver; but the relative offices of this artery, and the vena porta, are not yet fo well understood, as to lead us to fuch a distinction.

Where the etymology of a word will affift in explaining the lituation or function of any part, it ought furely to be preferred. For although the technical meaning may be determined by a definition, yet it is difficult to divest ourselves of the idea which the etymology conveys. Thus, to talk of the pulmonic vessels of the leg and arm, must appear strange to any one who had ever heard of the vessels of the heart and lungs which have received that name. No reason is alleged for making the particular term pulmonic a general one, or for tendering a word particular, whose strict meaning is general. All the vessels of the body, might be called follemic, as forming a part of the whole system; but few of them can properly be termed pulmonic, because a small number only belong to the lungs. Perhaps it would have been better, to have fuggested two new terms, which had never been in use, if any new terms are necessary, for expressing the arterial and venous circulation. But it has been already observed, that no alterations in names should be made, unless absolutely required; since nothing

thing impedes the diffusion of knowledge more, than the multiplicity of technical terms, and variety of nomenclature. Therefore, we humbly conceive, as the terms fiftenic and pulmonic do not admit of general application to all the lower animals; as they appear to involve some ambiguity in their etymological sense; and as they do not promise any great advantages from their use, they ought not to be adopted, to the exclusion of those wellknown terms, the arteries and veins.

These objections are thus cursorily submitted to the learned author's consideration, rather as hints for farther investigation and improvement, than from a conviction of their validity and force.

'After having given this general sketch of Dr Barclay's Essay, we shall not detain our readers, by following him through all his other curious and interesting remarks, on several miscellaneous **subjects.** He suggests new terms for describing the head and face in different animals, which appear extremely correct and fatisfactory. By flight changes in the termination of the new words, they are made to express, clearly and accurately, all the necessary modifications of which their general meaning is sufseptible. When they end in al or an, they denote simply pofition or aspect: by changing their termination into en, they express a different fort of connexion; and when they end in ad, they are used adverbially. Sound is a quality much less important than sense; yet it is not wholly to be disregarded. Some perfons, may therefore be offended by the cacophony produced by words with such harsh terminations. Examples may indeed be adduced from the Greek, French, and German languages, in favour of words terminating in en and ad; but it must be remembered, that the harshness is here softened by the pronunciation, or by the arrangement which their inversions allow. In our own language, some of these terminations may be found; but these are chiefly in monofyllables, or in the participles of fome verbs. Thete objections can be of no weight to technical terms; and if they are found fufficiently expressive, the ear and the vocal organs will foon be reconciled to their use. For various illustrations of the different fuggestions that have been noticed in this outline, we must refer to the work itself; which contains also some plates, with the new artificial figns marked upon the skeleton, to exhibit more concifely their meaning and defign.

With regard to the style of Dr Barclay's tract, it is upon the whole foliciently perspicuous; though perhaps, in several respectation mewhat more adorned, and even a little more learned that the nature of the subject required.—A few inaccuracies have carreled our eye in a work upon language, Vocables (page 93), is neither

neither French nor English. Nomenclaturing (page 109), is like-wise a new word. In page 142, will is twice used for fhall. And we scarcely approve of mediums, (page 97), and craniums, (page 147).

ART. X. Amadis de Gaul. By Vafro Lobeyra. From the Spanish Verfion of Garciordonez de Montalvo. By Robert Southey. Four Volumes 12mo. London.

Amadis de Gaul: A Poem, in Three Books. Freely Translated from the First Part of the French Version of Nicolas de Herberay, Sieur des Essars. With Notes, by William Stewart Rose, Eq. 12mo. London.

THE fame of Amadis de Gaul has reached to the present day, and has indeed become almost provincial in most languages of Europe. But this diffinction has been attained rather in a mortifying manner: for the hero feems much less indebted for his present renown to his historians, Lobeira, Montalvo, and Herberay, than to Cervantes, who felected their labours, as one of the best known books of Chivalry, and therefore the most prominent object for his ridicule. In this case, as in many others, the renown of the victor has carried down to posterity the me-mory of the vanquished; and, excepting the few students of black letter, we believe no reader is acquainted with Amadis de Gaul. otherwife than as the prototype of Don Quixote de la Mancha. But the ancient knight feems now in a fair way of being refcued from this degrading state of notoriety, and of once more resuming a claim to public notice upon his own proper merits; having, with fingular good fortune, engaged in his cause two fuch authors as Mr Southey and Mr Rofe. As the subject of the two articles before us, is in fact the fame, we shall adopt the profe version of Mr Southey, as forming the fullest text for the general commentaries which we have to offer; referving till the conclusion, the particular remarks which occur to us upon Mr Rose's poem.

Mr Southey has prefixed to his translation certain preliminary notices, which, by an odd and rather affected arrangement, he has fplit into sections or chapters, numbered 1st, 2d, 3d, &c.; a division which is the more arbitrary, as no titles are given to these sections. Many readers, thus lest to conjecture the causes and purpose of the arrangement, must find themselves at a loss; and we readily confess ourselves to be of the number: for an un-

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broken inquiry respecting the author of Amadis, occupies most of the paragraphs thus unnecessarily detached from each other. This inquiry, particularly connected as it stands with the history of romance in general, has claim to our peculiar attention.

The earliest copy of Amadis de Gaul, now known to exist, is the Spanish edition of Garcia Ordognez de Montalvo, which is used by Mr Southey in his translation. Montalvo professes, in general terms, to have revised and corrected this celebrated work from the ancient authorities. He is supposed principally to have used the version of Vasco de Lobeira, a Portuguese knight who died in the beginning of the 15th century. But a dispute has arisen, whether even Lobeira can juitly claim the merit of being the original author of this famous and interesting romance. Nicolas de Herberay, who translated Montalvo's work into French in 1575, afferts politively, that it was originally written in that language; and adds this remarkable passage: ' Jen ay trouvé encores quelques reste d'un vieil livre escrit à la main en langage Picard, sur lequel J'estime que les Espagnols ont fait leur traduction, non pas de tout suyvant le vrai original, comme l'on pourra veoir par cestuy, car ilz en ont obmis en aucuns endroits et augmenté aux autres." Southey, however, fetting totally afide the evidence of Herberay, as well as of Monsieur de Tressan, who also assirms the existence of a Picard original of Amadis, is decidedly of opinion, that Vasco de Lobeira was the original author. It is with some hesitation that we venture to differ from Mr Southey, knowing, as we well know, that his acquaintance with the Portuguese literature entitles him to confiderable deference in fuch an argument: yet, viewing the matter on the proofs he has produced, and confidering also the general history and progress of romantic compofition, we incline strongly to think with Mr Rose, that the story of Amadis is originally of French extraction.

The earliest tales of romance which are known to us, are uniformly in verse; and this was very natural: for they were in a great measure the composition of the minstrels, who gained their livelihood by chanting and reciting them. This is peculiarly true of the French minstrels, as appears from the well-known quotation of Du Cangé from the Romance of Du Guesclin, where the champions of romantic siction are enumerated as the subject

of their lays.

Les quatre fils Haimon, et Charlon li plus grans
Li dus Lions de Bourges, et Gulon de Connans
Perceval li Galois, Lancelot, et Tristans
Alexandre, Artus, Godefroi li fachans
De quoy cils menestriers font les noble romans.

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There are but very few profe books of chivalry in the worlds which are not either still extant, or are at least known to have existed originally in the form of metrical romances. The very name by: which fuch compositions are distinguished, is derived from the romance or corrupted Latin employed by the minstrels, and long fignified any history or fable narrated in vulgar poetry. It would be almost endless to cite examples of this proposition. The Tales of Arthur and his Round Table, by far the most fertile source of the romances of chivalry, are all known to have existed as metrical compositions long before the publication of the profe folios on the same subject. These poems the minitrels used to chantat folemn festivals: nor was it till the decay of that extraordinary profession that romances in profe were substituted for their lays. The invention of printing haftened the declenfion of poetical romance. The fort of poetry employed by the minstrels, differed only from profe in being more easily retained by the memory; but when copies were readily and cheaply multiplied by means of the prefs, the exertion of recollection became unnecessary.

As early as the fifteenth century, numerous profe versions of the most celebrated romances were executed in France and England, which were printed in the course of the fixteenth. works are now become extremely rare. Mr Southey attributes this to their great popularity. But if their popularity lasted, as he supposes, till they were worn out by repeated perusal, the printers would have found their advantage in supplying the public with new editions. The truth is, that the editions first published of these expensive folio romances were very small. Abridgments and extracts ferved the purpole of the vulgar. Meanwhile, the tafte of the great took another turn; and the books of chivalry disappeared, in consequence of the neglect and indifference of their owners. More than a century elapsed betwixt their being read for amusement, and sought for as curiosities; and such a laple of time would render any work scarce, were the editions as numerous as those of the Pilgrim's Progress.

To return to our subject—It appears highly probable to us, that Lobeira's profe Amadis was preceded by a metrical romance, according to the general progress which we observe in the history

of fimilar productions.

Another general remark authorifes the same conclusion. It is well known that the romances of the middle ages, were not announced to the hearers as works of mere imagination. On the contrary, they were always affirmed by the narrators to be matter of historical fact; nor was this disputed by the samplicity of the audience. The gallant knights and lovely dames, for whose delight these romances were composed and sung, were neither shocked by the incongruities of the work, nor the marvellous

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turn of the adventures. Some old tradition was adopted for the fubje@ of the tale; favourite and well known names were introduced An air of authenticity was thus obtained; the prejudices of the audience conciliated; and the feudal baron believed as firmly in the exploits of Roland and Oliver, as a sturdy Celt of our day in the equally fophislicated poems of Offian .--Hence, the grand fources of romantic fiction have been traced to the Brut of Maister Wace, himself a translator of Geoffrey of Monmouth, who put into form the traditions of the bards of Wales and Atmorica; to the fabulous hillory of Turpin, from which forung the numerous romances of Charlemagne and his twelve Peers; and, finally, to the fiege of Troy, as narrated by Dares Phrygius, and to the exploits of Alexander. Other and later heroes became also the subject of romance. Such were William of Orange, called Short-nofe, Richard of Normandy, Ralph Blundeville Farl of Chester, Richard Cour de Lion, Robert the Bruce, Bertrand du Guesclin, &c. &c. The barons also, before whom these tales were recited, were often flattered by a fabulous genealogy which deduced their pedigree from some hero of the story. A peer of England, the Earl of Oxford, if we recellect aright, conceited himself to be descended of the doughty Knight of the Swan; and, what is fomewhat to our present purpose, the French family of Bonneau deduce their pedigree from Dariolette, the complaifant confidant of Elisene, mother to Amadis.—See Mr Refe's work, p. 52.

- A Portuguese minstrel would therefore have erred grossly in choosing for his subject a palpable and absolute siction, in which he could derive no favour from the partialities and preconceived opinions of those whose applause he was ambitious to gain. But if we Suppose Amadis to have been the exclusive composition of Levbeira, we must suppose him to have invented a story, not only altogether unconnected with the history of his own country, but identified with the real or fabulous hiltory of France, which was then the ally of Castile, and the mortal foe of Portugal. The difficulty is at once removed, if we allow that author to have adopted from the French ministrels a tale of their country, sounded probably upon some ancient and vague tradition, in the same manner as they themselves had borrowed from the British bards, and Geoffrey of Monmouth, their translator, the flender foundation upon which they erected the voluminous and fplendid hiftory of Arthur, and the doughty chivalry of his Round Table. This is the more probable, as we actually find Amadis enumerated spriong other heroes of French romance mentioned in an and the collection of stories, called Curfor Mundi, translated from Reench into English metre.

· Men lykyn jellis for to here, And Romans rede in diverse manere, Of Alexandre the conquerour; Of Julius Carlar the emperour; Of Greece and Troy the strong stryle; There many a man loft his lyf; Of Brut, that baron bold of hend, The first conquerour of England; Of Kyng Artour, that was so ryche; Was non in his tyme fo ilvche; Of wonders that among his knights fell, And auntyrs deden as men her telle: As Gaweyn and othir full abylle, Which that kept the round tabyll; Hou King Charles & Rowland fawghte With Sarazins nold thei be cawght; Of Triffram and Yfoude the fwete, Hou thei with love first gan mete; Of King John & of Lembras; Warton's Hiftory of Poetry. Of Ydoine and Amades.'

If the hero last mentioned be really Amadis de Gaul, the question as to the existence of a French or Picard history of his exploits, is fairly put to rest. For, not to mention that the date of the poem above quoted is at least coeval with Vasco de Lobeira, it is admitted, that no French translation of the Portuguese work was made till that of Herberay in 1575; and, consequently the author of the Curfer Mundi must have alluded to a French original, altogether independent of Lobeira's work.

Mr Southey himself, with the laudable impartiality of an editor, more attached to truth than system, has produced the evidence of one Portuguese author, who says that Pedro de Lobeira translated the history of Amadis de Gaul from the French language, at the instance of the Insant Don Pedro. Aguslesio Lustiano, tom. 1. 1900.—Isom, although this author has made a mistake, in calling Lobeira, Pedro, instead of Vasco, yet his authority at least proves, that there existed, even in Portugal, some tradition that Amadis had originally been composed in French, although the authors of that country have, with natural partiality, endeavoured to vindicate Lobeira's title to the same of an original author. One singular circumstance tends to corroborate vol. III. No. 5.

^{*} The evidence of Nicola Antonia, in the Verus Hispana Bibliotheca, is, as remarked by Mr Rose, extremely inconclusive. He adds at forms off to his affirmation that Lobeira was the original author of Amadis, and quotes the equally cautious expression of Antonius Augustinus—
Quarum fabularum primum suisse auctorem Vascum Lobeiram, Lastrani jastant. Amadis de Gaule, a poem, Introd. p. vi.

what is stated in the Agiologio. It is certain that the work was executed under the inspection of an Infant of Portugal; for Montalvo expressly states, that at the instance of this high perfonage, an alteration, of a very peculiar nature, was made in the story. The passage, which is curious in more respects than one, is thus rendered by Mr Southey.

At the end of the 41st chapter, it is faid that Briolania would have given herfelf and her kingdom to Amadis; but he told her, right loyally, how he was another's. In the Spanish version, ff. 72, this passage follows-" But though the Infante Don Alfonso of Portugal, having pity upon this fair damfel, ordered it to be fet down after another manner, that was what was his good pleasure, and not what actually was written of their loves; and they relate that history of thefe loves thus, though, with more reason, faith is to be given to what we before faid: -Briolania, being reftored to her kingdom, and enjoying the company of Amadis and Agrayes, perfifted in her love; and, feeing no way whereby the could accomplish her mortal defires, the spake very secretly with the damsel, to whom Amadis, and Galaor, and Agrayes, had each promifed a boon, if the would guide Don Galaor where he might find the Knight of the Forest. This damfel was now returned, and to her she disclosed her mind, and befought her, with many tears, to advise some remedy for that strong passion. The damfel then, in pity to her lady, demanded, as the performance of his promife, from Amadis, that he should not go out of a certain tower till he had a fon or a daughter by Briolania; and they fay, that, upon this, Amadis went into the tower, because he would not break his word; and there, because he would not confent to Briolania's defires, he remained, losing both his appetite and his fleep, till his life was in great danger. This being known in the court of King Lifuarte, his lady Oriana, that she might not lose him, sent and commanded him to grant the damfel's defire; and he having this command, and confidering, that by no other means could he recover his liberty, or keep his word, took that fair Queen for his leman, and had by her a fon and a daughter at one birth. But it was not fo, unless Briolania, seeing how Amadis was drawing nigh to death in the tower, told the damfel to release him of his promise, if he would only remain till Don Galaor was arrived; doing thus, that she might so long enjoy the fight of the fair and famous knight, whom, when she did not behold, she thought herfelf in great darkness. This carries with it more reason why it should be believed; because this fair Queen was afterwards married to Don Galaor, as the fourth book relates.' Introduction, p. vii.

It feems to us clear, from this fingular passage, that the work upon which Lobeira was busied, under the auspices of the Infant Don, Alfonso, or what Infant soever was his patron, must necessarily have been a translation, more or less free, from some ancient autionity. If Amadis was the mere creature of Lobeira's fancy,

the

the author might no doubt be unwilling, in compliance with the whimfical compassion of his patron for the fair Briolania, to violate the image of ideal perfection pictured in his hero, to which sidelity was so necessary an attribute; but he could in no sense be said to interpolate what actually was written, unless he derived his story from some authority, independent of the resources of

his own imagination.

We do not think it necessary to enter into the question, how far the good taste and high spirit displayed in this romance, entitles us to ascribe it exclusively to the French. The modest asfurance with which Monfieur de Tressan advances the claim of his nation upon this ground, is, as Mr Southey has justly observed, a truly French argument. We have not, however, that very high opinion of the Portugueze character, about the conclusion of the 14th century, which has been adopted by Mr Southey. collect that the 'good and loyal Portugueze, who fought at Aljubarrota for king Joam of good memory,' were indebted for that victory to Northberry and Hartfell, the English mercenaries, who arranged their hoft in fo strong a position; to the headlong impetuolity of the Gascon, Berneze, and French adventurers, who composed the van of the Spanish army; and to the jealousy or cowardice of the Castilians, who refused to support their auxiliaries: So that little of the fame of that memorable day, can in truth be imputed to the courage of the Portugueze. At that time, indeed, Castile and Portugal were rather the stages whereon foreigners exercised their courage in prize-fighting, than theatres for the display of national valour. Edward the Black Prince, John of Gaunt, John Chandos, and Sir Edward Knowles, fought in those countries, against Bertram of Clesquy and the flower of French chivalry; but we hear little of the prowess of the inhabitants themselves. Such an insolent superiority was exercised by the English and Gascons, who came to the assistance of the king of Portugal, that, upon occasion of some difcontent, they erected the pennon of St George as a fignal of revolt; elected Sir John Soltier, a natural fon of the Black Prince, to be their captain; and proclaimed themselves, friends to God, and enemies to ail the world; nor had the King any other mode of faving his country from pillage, than by complying with their demands. Indeed, it is more than probable, that both Portugal and Spain, would have fallen under the dominion of England, if the port wine, which now agrees so well with the constitution of our fouthern brethren, had been equally congenial to that of their martial ancestors: 'But the Englyshmen founde the wynes there so strong, hot and brinning, that it corrupted their heads, and dried their bowelles, and brente their lightes and lyvers; and they had no remedy; for they could fynde but lytill good water to tempre their wynes, nor to refresh them; which was contrary to their natures; for Englythmen, in their own countries, are sweetly nourished; and there they were brent both within and without. To such circumstances was Portugal occasionally indebted to safety, at the hands of her too dangerous allies. It seems to us more than probable, that, during these wars, the French or Picard original of Amadis, was acquired by Lobeira from some minstrel, attendant upon the numerous Breton and Gascon knights who followed the banners of the Earl of Cambridge, or the Duke of Lancaster; for to Brittainy or Acquitaine we conceive the original ought to be referred.

Dut while we cannot believe, against the concurring testimony of Herberay and Tressan, as well as against the usual progress of romantic composition, that Amadis de Gaul is, from beginning to end, the invention of Lobeira; yet, we conceive enough may safely be ascribed to him, to warrant the praises bestowed on him by Mr Southey, and perhaps to entitle him to the name of an original author. We do not indeed know, the precise nature of Lobeira's work, nor what additions have been made to it by Montalvo; but it is easy to conceive that it must have been something very different from the Picard original. In making some remarks on the siyle and structure of Amadis, we shall endeavour to contrast them with those of the earlier romance.

The metrical romances differed in many most material particulars from the profe romances by which they were superfeded. The former partook of the character of the rhapfedlitts, by whom they were usually composed, and always fung. It was vain to expect from the ignorant minitrels, or those who wrote for them, a well connected hiltory: nor, if they had been capable of fuch a refined composition, could its beauties have been relished by their audience, to whom they had feldom time to fing above one or two of the adventures contained in a long romance. Their narration was therefore rambling and defultory. One adventure followed another, without much visible connexion; the only object of the author being, to produce such detached pieces as might interest during the time of recitation, without any regard to the unity of the composition. Thus, in many cases, the only connexion feems to mife from the same hero figuring in all the adventures, which are otherwise as much detached from each other, as the scenes in the box of a show-But when a book was substituted for the minstrel's song. men the adventures of a preux chevalier were no longer listened to by flarts, amid the roar of convivial festivity, but surnished the minufernent of the closet, and that in so permanent a shape, that the

the student might turn back to resume the connexions which had escaped him; it became the study of the author to give a greater appearance of uniformity to his work. As an arrangement, in which all the incidents should seem to conduce to one general end, must soon have become a merit with the reader; it became, necessarily, to the author, a worthy object of attainment. Hence, in the best of our prose romances, and particularly in Amadis de Gaul, a combined and regular progress of the story may be discovered; whereas the metrical romances present, with a few exceptions, a fuite of unconnected adventures, often ftriking and splendid indeed in themselves, but appearing rather an affemblage of loofe materials for a history, than a history itself. But the advantage, thus gained by the profe romances, was often loft, by carrying too far the principle on which it was grounded. Having once regularly completed a story, good taste and judgement required them to flop, and chuse for their future labours some subject unconnected with what was already perfect. But this was not the genius of the age. When they had secured an interesting fet of characters, the authors could not refift the temptation of bringing them again upon the stage; and hence, the endless continuations with which Amadis and the other romances of that class, were saddled, and of which Mr Southey complains with fo much justice. Only four books of Amadis are genuine. The remaining twenty are an interpolation, containing the hiftory of his descendants, in all respects greatly inserior to the original.

In another point of view, it appears to us not quite clear that the profe romancers obtained any superiority over their poetical The rude poetry of the minitrels was no doubt predecessors. frequently rambling and diffusive; partaking, in short, of those faults which naturally attach to unpremeditated composition. But we doubt greatly, whether the studied and affected ornaments of the profe romance are not more tedious and intolerable than the rhapsodies of the minstrels. Mr Southey, in his translation of Amadis, has, with due attention to modern tafte, shortened the long speeches of the lovers, and simplified many of their high-flown compliments. On the other hand, the custom of interweaving the history with little descriptive sketches, which, in many instances, were very beautiful, was dropt by the profe narrators, as an unnecessary interruption to the continuation of We allude to fuch passages as the following, which are introductions to the Fittes of the unpublished romance of Merlin. The ancient orthography is altered, for the fake of modern readers.

In time of winter along * it is, The fowls lesen their bliss, The leaves fallen off the tree, Rain rusheth along the countrey; Maidens lose their lovely hew, But still they loven that be true.

In May is merry time swithe, 'Fowls in wood they make them blithe, Swains 'gin on justing ride, Maidens dressen them with pride.

Merry it is in the month of June, When fennel hangeth abroad in town; Violet and rofes flower Groweth then on maidens bower; The fun is hot, the day is long; The fmall birds maketh merry fong.'

Of such passages, which serve to relieve the heaviness of the perpetually recurring fight and tournament, the profe romance affords us no example. The ornaments which it presents, are those of studied description, every word of which is laboured, as applicable to the precise scene which is described, without expressing or exciting any general sensibility of the beauties of nature, We may take, as no unfavourable instance, the account of the tower and gardens constructed by Apollidon in the Firm Island.

In that tower were nine apartments, three on a floor; and though some part was the work of skilful artists, the rest was wrought by the skill and science of Apollidon himself, so wonderously, that no man in the world could rightly value, nor even understand its exceeding rarity. And because it would be long to describe it all at length, I shall onlysay, that the tower stood in the midst of a garden, surrounded with a wall of goodly stone and mortar; and the garden was the goodlicht that might be feen, by reason of its trees and herbs, and fountains of sweet water. Of those trees, many were hung with fruit the whole year through, and others bore flowers; and round about the garden by the walls, were covered walks, with golden trellis-work, through which might all that pleasant greenness be seen. The ground was covered with flones, some clear as the crystal, others coloured like rubies and other precious flones, the which Apollidon had procured from certain islands in the East, where jewels, gold, and other rare things are produced, by reason of the great heat of the sun continually acting. These islands are uninhabited, fave only by wild beafts; and, for fear of those beafts, no man durst ever set soot thereon, till Apollidon, by his cunning, wrought such spells, that it became safe to enter there; and then the neighbouring people, being assured of this, took advantage thereof, and ventured there also; and thus the world became stocked with sundry things which it had never before known. To the four sides of the tower, water was brought from the neighbouring mountains by metal pipes, and collected into sour fountains; and the water spouted so high from the golden pillars, and through the mouths of animals, that it was easy to reach it from the windows of the first story; for it was caught in golden basons wrought on the pillars; and by those sountains was the whole garden watered. Amadia, vol. IVu p. 13.

From comparing the flight, extemporary, and natural landscape-sketches of the ancient minstrel, with the laboured and minute picture of Lobeira or Montalvo, the reader may derive some idea of the marked difference between the style of the more ancient tales of chivalry, and those by which they were succeeded. The description of the minstrel appears almost as involuntary as it is picturesque, and is enlivened by the introduction of the birds, the dames, and the gallant knights. The prose author seems to have sat down to describe Apollidon's tower, his water-pipes, Kensington gravel walks, and Dutch trelis, with a fort of malice prepense against his reader's patience: and his account exactly refembles the plan and elevation of a capability-man or architect. The following contrast regards a scene of a more animated nature, and, of all others, that which occurs most frequently in romance.

 Alexander made a cry hardi. " Ore toft, aby, aby." Then the knights of Achaye Justed with them of Arabye: Egypt justed with them of Tyre, Simple knights with rich fyre. There ne was forgift, ne forbearing, Between Vavafour or King. Before men mighten and behind, Contest feek, and contest find. With Persians fought the Gregois; There was cry, and great hontois; There might men find his peer; There lose many his destrier; * There was quicke in little thrawe; Many gentil knight y-slawe; Many arm, many heavod, Sone from the body reaved; H 4

Many gentle ladye
There lost quickly her ami;
There was many y-maimed;
Many fair penfill bebledde;
There were swords liklaking; †
There were speres in blood bathing:
Both Kings there, sans doute,
Y-dashed in with all their route;
Many lands, both near and far,
Lost their Lords in this war.
Earth quaked of their riding;
The weather thicken'd of their crying;
The blood of them that were y-slawe,
Ran by sloods to the lawe.'

In this description, as in the former, may be traced the ipnit of the poet, warning as he advanced in narration; from the encountering of the holts, when war, like death, levelled all diffinction betwirt the vaffal and monarch, to the fall of the loves of ladies and the lords of domain, to the bloody banners, claibing fwords and gory lances, until the ground shook under the charge of the combatants, the air was darkened at their shouts, and the blood of the dying poured like torrents into the valley. The following is the description of the grand battle betwirt Lifuarte and Aravigo, in which the timely assistance of Amadis, with his father, gave the victory to the sather of Oriana.

• Prefently (King Lifuarte) went down the fide of the mountain into the plain; and as it was now upon that hour when the fun was rifing; it shone upon their arms; and they appeared so well disposed, that their enemies, who had before held them as nothing, now thought of them otherwise.——In this array, which you have heard, they mov-

ed flowly over the field one against the other.

At this feafon, King Perion, with his fons Amadis and Florestan, entered the plain upon their goodly steeds; and with their arms of the Serperts, which, shone brightly in the fun; and they rode on to place themselves between the two armies, brandishing their spears, whose points were so pointed and clear, that they glittered like stars; and the father went between his sons. Much were they admired by both parts, and each would willingly have had them on his side; but no one knew whom they came to aid, nor who they were. They, seeing that the holt of Brian of Monjuste was about to join battle, put spurs to their horses, and rode up near to his banner; then set themselves against king Taggadan, who came against him. Glad was Don Brian of their help, though he knew them not; but they, when they saw that it was time, rose to attack the host of King Targadan, so fercely, that all were associated. In that encounter, King Perion struck that other

King so hardily, that a part of the spear soon entered his breast, and he fell. Amadis smote Abdassan the Fierce, so that armour nothing profited him, but the lance passed through from side to side, and he fell like a dead man. Don Florestan drove Carduel, saddle and man, under the horses seet: these three being the bravest of that battalion that had come forwards to combat the Knights of the Serpents. Then laid they hand to sword, and passed through the first squadron, selling all before them, and charged the fecond; and when they were thus between both, there was to be feen what marvellous feats of prowefs they wrought with their fwords: fuch, that none did like them on either fide: and they had now under their horses more than ten knights whom they had smitten down. But when their enemies saw that they were no more than three, they charged them on all fides, laying on fuch heavy blows that the aid of Don Brian was full needful, who came up with his Spaniards, a brave people, and well horsed, and rode among the enemy, flaying and felling them, though his own men fell also; so that the Knights of the Serpents were succoured, and the enemy fo handled, that they perforce gave back upon the third battalion. Then there was a great press, and a great danger for all; and many knights died upon either fide: but what King Perion and his fons did there, cannot be expressed. Such was the uproar and confusion, that King Aravigo feared left his own men, who had given ground, should make the others fly; and he called aloud to Arcalaus, to advance with all the battalions, and attack in one body. This presently he did, and King Aravigo with him; but without delay King Lifuarte did the same: for that the whole battle was now joined: and fuch was the clang of throkes, and the cry and noise of horsemen, that the earth trembled, and the vallies rung again. ' Vol. III. p. 90.

In this last quotation, as in the former, the inferiority of Loberia is sufficiently manifest; though his description is by no means void of spirit. It cannot be alleged that this is owing to the poetry; for no modern will attribute much to the force of the minitrel's numbers; and the author of Amadis is far from disclaiming the use of poetical ornament. The difference arises from the disposition to specification, and to exchange general effect for minute description, which we have already re-

marked as an attribute of the profe romance.

The most curious part, however, of this curious subject, respects the change in manners which appears to have taken place about the middle of the 14th century, when what we now call the Spirit of Chivalry, seems to have shone forth with the most brilliant lustre. In the older romances, we look in vain for the delicacy which, according to Burke, robbed vice of half its evil, by depriving it of all its grossness. The tales of the older metrical romancers, founded frequently on fact, and always narrated in a coarse and downright style, excite seelings sometimes ludicrous, and often disgusting; and in fact can only be excelled by the unparalleled sabliaux published by Barbazan, which although professed

professedly written to be recited to noble knights and dames, exhibit a nakedness, not only in the description, but in the turn of the story, which would now banish them even from a bagnio, unless of the very lowest order. The ladies in metrical romances, not only make the first advances on all occasions, but with a degree of vivacity, copied it would seem from the worthy spouse of Potiphar. For example, a certain knight called Sir Amis, having declined the proffered savours of the Lady Belisaunt, pleading his allegiance to his liege lord, receives from her the following sentimental rebuke:

- That merry maiden of great renown
 Answered, "Sir Knight, thou has no crown—*
 For God that bought thee dear,
 Whether art thou priest or parson,
 Other art thou monk, other canon,
 That preachest me thus here?
- Thou never shouldst have been a Knight,
 To go amongst maidens bright;
 Thou shouldst have been a frere:
 He that learned thee thus to preach,
 The devit of hell 1 him biteche,
 My brother though he were."

 Amis & Amelion.

As the damsels were urgent in their demands, the knights of these more early ages were often brutally obstinate in their refusal; and instead of the gentle denial which the love-sick Briolania received from the courteous Amadis, they were too apt to exclaim like Bevis of Hamton, when invited to a rendezvous by the fair Josiana a Saracen princess—

To Bevis' chamber they came anon,
And prayed, as he was gentleman,
Come speak with Josian.
Bevis stoutly in this stound
Haf up his head from the ground

And said, " If ye ne were messagers,
I should ye slay, ye lossengers;
I ne will rise one foot fro' grounde
For to speak with an heathen hounde;
Ese is a hound, also be ye,
Out of my chamber swith ye slee."

· Forth the knights go can;

All this coarseness, in word and deed, was effectually banished from the romances of chivalry which were composed subsequent to 1350. Sentiment had begun to enter into these sictions, not casually, or from the peculiar delicacy of an individual author, but as a necessary qualification of the heroes and heroines whose

loves occupied their ponderous folios.

Of this refinement we find many instances in Amadis. Balays of Corfante being repulsed by a damscl, explains his sentiments upon such points. 'My good lady,' Balays answered, think no more of what I faid: it becomes knights to ferve damfels, and to woo their love, and becomes them to deny, as you have done: and albeit, at the first, we think it much to obtain of them what we defire, yet when wifely and discreetly they refift our inordinate appetites, keeping that without which they are worthy of no praise, they be even of ourselves more reverenced and commended.' Notwithstanding this favourable alteration in their tone, the reader is not to understand that the morality of these writings was in fact very materially amended; for at no period was the age of chivalry diftinguished for female virtue. Those who have supposed the contrary, have never opened a romance written before the tomes of Calprenede, and Scudery, and judge of Queen Guenever, Iseult, and Oriana, by what they find there recorded of Mandane and Cassandra. But the genuine profe romances of chivalry, although less gross in language and circumstance, contain as little matter for edification as the tales of the minstrels, to which they succeeded. Lancelot du Lac is the adulterous lover of Guenever, the wife of his friend and sovereign; and Tristram de Lionel the incestuous seducer of his uncle's spouse, as well in the profe folios of Rusticien de Puise, and the Knight of the Castle of Gast, as in the rhimes of Chretien de Troyes and Thomas of Erceldoune. Nor did the tales of a more modern date turn upon circumstances more correct: witness the history of the Petit Iehan de Saintré, and many others. Of Amadis, in particular, Mr Southey has observed, that 'all the first-born children are illegitimate,' because sthe hero must be every way irresistible. The same obfervation applies to most romances of chivalry; so that one would be tempted to suppose that the damsels of those days, doomed frequently to wander through lonely woods infested by robbers. giants, and caitiffs of every description, were so far from trusting, like the lady in Comus, to the magic power of true virginity, that they hastened to confer upon some faithful knight a treasure so very precarious, while it was yet their own to bestow. But the modern man of gallantry will be surprised to hear, that this by no means diminished either the zeal or duty of the lover, whe

who had thus attained the fummit of his hopes. On the contrary, unless in the case of here and there a Don Galaor, who is always painted as a subaltern character, a preux chevalier was bound, not only to maintain the honour of the lady thus depofited in his custody, but to observe towards her the fidelity and respect of religious observance. * Every one knows how long Sir Lancelot had enjoyed the favours of Queen Guenever; and vet that scrupulous knight went distracted, and remained so till he was healed by the Sang-real, merely because by enchantment he was brought to the bed of the lovely Dame Elaine. As for Amadis, the bare suspicion which Oriana conceived of his infidelity, occasioned his doing penance on the Poor Rock in a manner unequalled, unless by the desolate knight who averred himself to have retired to a cavern, where he 'used for his bed mosse, for his candle mostle, for his covering mostle, and, unless now and then a few coals, mother for his meat; a dry food, God wot, and a freth; but so moistened with wet tears, and so falte, that it was hard to conjecture whether it was better to feed or faft.'+

In short, the love of the knights-errant was like their laws of honour, altogether beyond the common strain of feeling, as well as incapable of being measured by the standard of religion and morality. Their rules of honour have in some degree survived the fate of their order; and we have yet fatal instances of bloodshed for a 'word of reproach,' a 'bratchet hound,' or such other causes of duel as figure in the tales of the Table Round. But the love which was not only fostered, but imposed as a sofolemn duty by the laws of chivalry, is now only to be traced in fuch a romance as is before us. It subsisted, as we have seen, independent of maidenly chaftity and conjugal fidelity; and its fource perhaps may be traced to a remote period of antiquity. Tacitus has noticed the respect in which women were held among the German tribes. The ladies of Britain were indulged with the privilege of a plurality of husbands; and those of Scandinavia, although they were limited to one, might divorce him at their pleasure. ‡ This fort of supremacy, the ladies appear at all

The Cecifiei of Italy derive their order from the days of chivalry. The reader is referred to the Memoires de Grammont for an account of the duties expected from them.

⁺ Progresses of Queen Elizabeth, Vol. 11. p. 136.

A curious instance may be found in Eyrbiggia Saga. Thordifa,
the wife of Borck, an Icelandic chief, attempted to stab one Eyulf
the triend and guest of her husband. Borck interfering, administered

all times to have exercised over the descendants of the Northern It is true, as already mentioned, the homage paid their charms by the earlier heroes of chivalry, was interrupted and fullied by the roughness of their manners and expressions. To reverse the complaint of the Knight of the Burning Pestle, one whom Amadis had styled courteous damsel, Bevis would have called heathen hound;' but the duty of obeying the hests, and fighting for the honour of a lady, was indispensable even among the earliest and rudest sons of chivalry. In the course of the fourteenth century, this was fublimated and refined to the most extravagant degree; so that the secret, inviolable, and romantic attachment of Amadis to Oriana might be easily paralleled by fimilar passages from real history. Even the zeal of devotion gave way to this all-devouring fentiment; and very religious indeed must the knight have been, who had, as was predicated of Esplandian, God upon his right hand, and his lady upon his left.

We cannot leave this part of our subject, without bestowing our warm commendations on Mr Southey, for distaining to follow Tressan and Herberay, in the impure descriptions and obscenities which they have much oftener introduced, than found, in the Spanish original. Tressan in particular, whose talents and taste made it totally inexcuseable, dwells with infinitely higher gust upon the gallantries of Don Galaor, than upon the Love of Amadis; and describes them with that vicious and perverted love of obscenity, which Mr Southey so justly reprobates, as peculiarly and characteristically the disgrace of French Literature. May a practice, so ominous to the morals and manly virtue of our nation, long be a stranger to the writings of those who prosess to assorb to Britons information or pleasure!

The manners described in Amadis de Gaul are, in other respects, strictly seudal and chivalrous. The points of right and honour which are discussed; the rules of combat and of truce; the high and rigid adherents to knightly faith, are all seatures of the 14th and 15th centuries. What may appear to the modern reader, one of the most strained instances of the latter, is the conduct of King Lisuarte in the fourth book, to whom an old man presents a crown and mantle, under the condition, that he shall restore

them

nistered to his wife some domestic chastisement. But mark the confequence. When Borck departed to Helgasell, Thordisa, standing before the door of the house, called witnesses to bear testimony that she divorced her hulband Borck; assigning for a cause, that he had struck her, and that she would no larger submit to such injuries. Thereupon the household goods were divided betwixt them.

them at his cour pleniere, or grant the suppliant a boon in their stead. On the appointed day, the crown and mantle, having been conveyed out of Lisuarte's custody by enchantment; the boon demanded by the stranger in lieu is, that Oriana, the daughter of Lisuarte, should be delivered up to him.

Lisuante exclaimed, Ah, knight, thou hast asked a great thing! and all who were present were greatly grieved. But the King, who was the most loyal man in the world, bade them not trouble themselves. It is better, said he, to lose my daughter, than to break my word; the one evil afflicts sew, the other would injure all; for how would the people keep faith with one another, if they could not depend upon the King's truth? And he commanded his daughter to be brought. When the Queen and her ladies heard that, they made the most forrowful outcry that ever was heard: but the king ordered them to their chambers; and he forbade all his people to lament, on pain of losing his favour. My daughter, cried he, must fare as God hath appointed; but my word shall never be wilfully broken.

Instances of a similar rigid adherence to knightly faith can be produced from real history. The Duke of Gueldres being on a journey through Prussia, was laid in wait for, and made prisoner by certain banditti, or adventurers, commanded by a squire named Arnold. When the Grand Master of the Teutonic Order heard what had happened, he marched against the castle where the Duke was confined, with so strong a force, that Arnold durst not abide his coming. Hereupon he said to his prifoner, ' Sir Duke, ye are my prisoner, and I am your master. 'Ye are a gentleman and true knight; ye have fworn, and given me your faith. I think not to abide the mafter of Pruce; he cometh hither with a great force; tarry here, if you list; I will carry with me your faith and promise.' To this he added the name of the place to which he retreated, and so left the Duke at liberty. The Duke waited the arrival of the Grand Mafter; but was so far from considering it as absolving him from his captivity, that no entreaties nor representations, could stay him from acquitting his faith, by again putting himself into the hands of Arnold; with whom he remained a prisoner, till he was ransomed by his friends.

The quarrel betwixt king Lifuarte and Amadis, because he would not bestow upon Galvanes the hand of his captive Madasima, and the dominion of the island which she inherited, and which he had conquered; the manner in which Amadis and his kindred renounce the service of Lifuarte; the mutual defiances which are formally exchanged betwixt them, are all in the high of seudal solemnity, and are well worthy the attention of the who investigate the customs of the middle ages. The read-

er may compare the mode in which these desiances were received, with the deportment of the Black Prince, when he was served with a writ of summons to attend the Parliament at Paris. 'When the Prince had read this letter, he had great marvel, and shook his head, and beheld servely the Frenchmen; and when he had a little studied, he answered in this manner: "Sirs, we will gladly go to Paris, to our uncle, sith he hath sent thus for us; but I assure you, that it shall be with bassnet on our head, and sixty thousand men in our company." Froissart.

We have dwelt the more fully upon the manners of this romance, because they correspond exactly with those of the period in which it was written. In the romances which were composed during the declension of chivalry, the writers no longer painted from the life; the manners which they described were as fictitious as the adventures which they narrated; and the reader may look for such historical resemblances as we have noticed, with as little success, as if he were to consult a map for the situation of Tapro-

bana, or the Firm Island.

We have already observed, that the story of Amadis is constructed with singular ingenuity. The unvaried recurrence of the combat with the lance and the sword, is indeed apt to try the patience of the modern reader; although the translator's compassion has spared them some details, and consolidated as he rather quaintly says many of those single blows, which have no reference to armorial anatomy. But, in defiance of the similarity of combat and adventure, the march of the story engages our attention; and the successive events are well managed, to support each other, and to bring on the sinal catastrophe. It is not our intention to give a detailed account of the story; but the following sketch may excite, rather than forestall, the curiosity of the reader.

Perion, king of Gaul, the guest of Garinter, king of Brittany, becomes enamoured of the fair Elisene, daughter of that monarch, obtains a private interview, and departs to his own kingdom. The princes becomes pregnant, and, to hide her disgrace, the child, afterwards the samous Amadis, is placed in a cradle, and launched into the sea. He is found by a knight of Scotland, and carried to that kingdom, where he is educated as the son of his preserver. Meanwhile, Perion marries Elisene, and they have a second son, called Galaor, who is carried off by a giant, and brought up to feats of arms and chivalry. Amadis, in the interim, is brought by his softer-sather to the court of Scotland, where he meets Oriana, daughter of Lisuarte king of Britain. To her he becomes warmly attached, and, when knighted, prevails on her to receive him as her cavalier. Thus animated, he

fets forth on his military career, to affift Perion of Gaul, who is only known to him as the ally of the Scotish monarch, against Abves, king of Ireland, who had belieged Perion in his capital. But no knight-errant ever attains the direct place of his destination, when he happens to have one, without some bye-battles. Several of these fall to Amadis's lot; and he is involved in many dangers, through which he is protected by the friendship of Urganda the Unknown, a mighty enchantrefs, the professed patroness of his house. Arriving at length at the capital of Gaul, he terminates the war, by the defeat and death of Abyes, whom he flays in fingle combat. After this exploit, by means of tokens which had been placed in his cradle, he is recognifed and acknowledged as the fon of Perion and Elitene. By this time Gandalac, the tutor of Galaor, conceived him to be ready to execute the purpose for which he had carried him oil; namely, to maintain a battle on his account, against a brother giant who had injured him. Galaor having previously received the order of knighthood from his brother Amadis, though without knowing him, undertakes the combat, which terminates like all combats between giants and knights. Amadis, meanwhile, repairs to the court of Lifuarte, father of Oriana, and diffinguishes himself by feats of chivalry, fubduing all competitors by his courage, and attaching them to his person by his valour and liberality. Galacr runs a fimilar career, with this advantage over his brother, that he feldom fails to be repaid for his labours, by the diffressed damozels whom he fortunes to relieve. At length Amodis, at the infligation of a certain dwarf, enters the coltle of Arcalous, whose captives he releafes, and whom he defeats in fingle combat. Here, nevertheless, he is made prisoner by enchantar in, and is in great peril, until released by the counter spells of his friend Urganda. The conjurer was, however, not to be provoked with impusity: he contrives, by a trick already noticed, to get into his positifion the lovely Oriana; and, by another device, had well nigh. flain her father Lifaarte, who was fortunately relieved by Galaor. An infurrection, fomented by Arcalaus, is alto quelled, and Orian is refcued from the enchanter, by the irrelitible arm of Amadis. His faithful fervices are rewarded, by possession of his mistress: and thus closes the first book of Amadis. Among other distressed princesses relieved by Amadis, chanced to be the lovely queen. Briolania, * who became desperately enamoured of her deliverer. (being

^{*} Although Cervantes states the dispute which occurred betwixt Don Quixote and Cardenio, in the Sierra Morena, to have respected the character of queen Madasma; yet the person meant must have been this

(being the same, indeed, whose hopeless passion excited the compassion of the prince of Portugal.) Oriana, from an inaccurate account of this affair, becomes jealous, and dispatches a severe and cruel message to Amadis. This reaches him, just as he had accomplished a notable adventure in the Firm Island, by entering an enchanted chamber, which could only be entered by the trueft lover who lived upon earth. The meffage of Oriana drives him to distraction; he forswears arms, and becomes the companion of the hermit on the Poor Rock, where he does penance, till he is near death's door. The place of his residence at length comes to Oriana's knowledge, who, sensible of her injustice, recals him to her presence, and of course to health and happiness. His return to the island of Windsor, where Lisuarte kept his court, is of the utmost importance to that prince, who reaps the advantage of his assistance, in a direful contest with Cildadan of Ireland, assisted by certain fons of Anak, whose names it would take us too much time to write, fince few of them are under fix fyllables in length. This giant brood being routed and dispersed, Lisuarte is induced, by certain deceitful, flattering, and envious courtiers, to treat the fervices of Amadis with flight and neglect. Ere long, this coldness comes to an open breach: Amadis, and his friends and followers, formally renounce the service of Lisuarte; and all retire, with their heroic leader, to the Firm Island, the sovereignty of which he had acquired. Galaor alone, bound by repeated obligations to Lifuarte, continues to adhere to him; and thus the author artfully contrives, that the reader shall retain an interest, even in the party opposed to Amadis. Oriana, during the absence of her lover, is fecretly delivered of a fon, named Esplandian; but as the heroines of the author are all mothers before they are wives, fo they are never trusted with the education of their own children. The little Esplandian is carried off by a lioness, from whom he is rescued by a faint and hermit, called Nasciano. He is educated by this holy man, and in process of time presented to his grandfather VOL. III. NO. V.

queen Briolanis. For Elifabat the forgeon, the person who gave the scandal, was the servant and attendant of Briolania, not of Madasima. Besides, the character of the latter was untainted (the story of her having twins by Amadis being altogether apocryphalit) whereas even the knight of La Mancha could not have vouched for the character of Madasima, who was one of the numerous mistrelles of Don Galaor, and otherwise a lady of light conditions. Don Galvanes is supposed to have married her only for her fortune, and that therefore the greater right to resent Lisuarte's attempt to deprive him of it. If this he not an accidental mistake of Cervantes, he reserved to some history of Amadis, very different from that of Montalvo.

Listiarte, and received into the train of his own mother. During this long space, Amadis wanders about the world, redressing wrongs, playing moniters, and turning the tide of battle against the opproswherever he comes. He has even the generolity (in difguile) to "affet Lifuarte in a very desperate battle with Aravigo, a powerful monarch, whom the inveterate enchanter Arcalaus had stirred up against the king of Britain. But the emperor of Rome, El Patin, as the romance calls him, fends to Lifuarte, to demand the hand of his daughter Oriana; and the king, seduced by ambition, is ill-advised enough to force his daughter to this marriage, in spite of the advice of his best counsellors. Amadis repairs, under a new disguise, to Britain; and the knights sent by the emperor to receive his bride, fustain at his hands a thousand disgraces, unpitied by the English, to whom they were odious, for their infolence and presumption. At length, the princess is put on board the Roman fleet; but that fleet is intercepted, and after a desperate combat, finally defeated by a squadron sitted out from the Firm Island, to which Oriana is conveyed in triumph. The difcretion of Amadis in his love, gave a colour to this exploit, totally foreign from the real cause. Amadis and Oriana, notwithstanding their long separation, meet like a brother and sister; and the knights of the Firm Island fend to justify their proceedings to . Lifuarte, declaring, that by his forcing her choice, his daughter was placed in the predicament of a diffressed damsel, whose wrongs, by their oath of knighthood, they were bound to redrefs. The apology is ill received by the king of Britain; who, with the emperor of Rome, and all the allies who adhere to him, prepared to invade the Firm Island, Amadis, supported by his father king Perion, and many princes and queens who owed their crowns and honour to his prowefs, affembles an army capable of meeting his enemy. Two desperate battles are sought, in which Liftuarte is finally worsted, but without being dishonoured by a total defeat. The brunt of the day falls upon the Romans, whom the author had no motive for sparing, and the emperor is flain on the field. In the meanwhile, the fainted hermit Nakrano, who had educated Elplandian, and to whom Oriaha had in confession revealed the history of her love to Amadis, arrives in the camp of Lifuarte, and by his mediation brings about truces both parties agreeing to retreat a day's journey from each whor. But Liluarte, whole asmy was most weakened, was, by the remode de movement, exposed to much danger. Arcalaus the endianter had had influence enough with king dravigo, to prematums waiting until Leluarte and Amadia thould have exsolution from the mutual conflict. Being in forme mea-11 28 34

fure disappointed in his expectations, Aravigo held it for most expedient to fall upon Lifuarte in his retreat, whom, after a valiant refiltance, he teduces to the last extremity: this is the moment which the author has chosen to exhibit the magnanimity of Amadis, and to bring about a reconciliation. The inftant he hears of Lifuarte's danger, our hero flies to his affiftance, and the reader will anticipate with what fuccess: Aravigo is slain, and Arcalaus made prisoner, and cooped up in a cage of iron. The father of Oriana is reconciled to her lover; and the introduction of Esplandian has its effect in haftening so desirable an event. The nuptials of Amadis and Oriana take place; and the other heroines are distributed among the champions of the Firm Island, with great regard to merit. One thing yet remained:-To finish the enchantments of the Firm Island, it was necessary that the fairest dame in the world should enter the enchanted chamber. Need we add, that dame was Oriana? 'Then was the feast spread, and the marriage-bed of Amadis and Oriana made in that chamber which they had won.'

Through the whole of this long work, the characters assigned to the different personages are admirably sustained. That of Amadis is the true knight-errant. Of him it might be faid in the language of Lobeira's time, that he was ' true, amorous, fage, fecret, bounteous, full of prowefs, hardy, adventurous, and chivalrous.' Don Galaor, the Ranger of knight-errantry, forms a good contrast to his brother. Lisuarte, even where swayed by the most unreasonable prejudices, shows, as it were occasionally, his natural goodness, so as always to prevent the total alienation of our good opinion and interest. The advantage given by the author to the vailals and dependants over the Suzerain, shows plainly a wish to please the numerous petty, princes and barons at the expence of the liege lord. This may be remarked in many romances of Chivalry, particularly in those of Charlemagne and his Paladins. Even the inferior characters are well, though flightly sketched. The prefumption of the Emperor, the open gallantry and dry humour of old Grumedan the King's standard-bearer, the fidelity of Gandalin squire to Amadis, the professional manners of Mafter Helifabad the physician, with many others, are all in true style and costume.

The machinery introduced in Amadis, does not, as Mr Southey observes, partake much of the marvellous. Arcalaus is more to be redoubted for his courage and cumning, than for his magic. Urganda is a fay fimilar to those which figure in the lays of Brittany, and, except her character of a prophetes, and some legerade-matri tricks of transformation, has not much that is superhararat in her character. We differ toto cells from Mr Southey, in

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deriving this class of beings from classical antiquity: the nymphs and naileds of the Greeks and Romans in no shape meddled with magic: nor were they agents out of the limits of their own proper elements. Some faint traces of Gentile superstition may be traced in the creed of the middle ages; but the Oriental genii and peris feem the prototype of the facries of romance. very word facry is identified with the peri of the East, which, according to the enunciation of the Arabs or Saracens, from whom the Europeans probably derived the word, founds pheri, the letter p not occurring in the Arabic alphabet. We do not mean, however, by any means, to adopt Mr Warton's system, which derives chivalry and romance exclusively from the East. On the contrary, although eaftern superstitions, and particularly that of the fatze, fadze, or peri, feem to have been adopted by the romancers, the fystem of chivalry itself appears of northern origin; and romance is chiefly indebted for its subjects to the historical traditions of the Celtic tribes, although the minstrels, by whom they were celebrated, were of Gothic extraction.

It remains to make some observations on Mr Southey's mode of executing his translation, which appears to us marked with the hand of a master. The abridgements are judiciously made; and although some readers may think too much has still been retained, yet the objection will only occur to fuch as read merely for the story, without any attention to Mr Southey's more important object of exhibiting a correct example of those romances, by which our forefathers were so much delighted, and from which we may draw fuch curious inferences respecting their customs, their morals, and their modes of thinking. The popular romance always preserves, to a certain degree, the manners of the age in which it was written. The novels of Fielding and Richardson are even already become valuable, as a record of the English manners of the last generation. How much, then, should we prize the volumes which describe those of the zera of the victors of Cressy and Poitiers! The style of Mr Southey is, in general, what he proposed, rather antique, from the form of expression, than from the introduction of obsolete phrases. It has something of the scriptural turn, and much resembles the admirable translation of Froisfart. * Some

File that would acquire an idea of the language of chivalry, cannot too often and the work of Bourchier Lord Berners. It is with point we fee a new translation of Froissart proposed to the public. It is impossible that the spirit of that excellent author can ever be so happened transfused into modern English, as into the sterling language of Lord Berners. The liberality of the proposed translator would surely

words have inadvertently been used, which, to us, savour more of vulgarity than beseems the language of chivalry. Such are the phrases, 'devilry,' Sir Knave,' Don False One,' and some others. But we only mention these, to show that our gene-

ral praise has not been inconsiderately bestowed.

Mr Southey has made an apology for not translating the names, which convey some meaning in the original: 'I have used Beltenebros, instead of the Beautiful Darkling, or the Fair Forlora; Florestan, instead of Forester; El Patin, instead of the Emperor Gosling; as we speak of Barbarossa, not Red-Beard; Boccanegra, not Black Muzzle; St Peter, not Stone the Apostle.' We cannot help thinking this apology as unnecessary, as the examples are whimfical. Proper names are never rendered into a familiar dialect, but with a view of making them ridiculous; although they are fometimes translated into a less known language, to give them dignity. Thus, Mr Wood is faid to have been converted into Dr Lignum, and to have gained by the exchange; while it is well known, that the Portugueze ambaffador, Don Pedro Francisco Correo de Sylva, was chased from the court of Charles the Second, by the ridicule attached to the nickname of Pierre du Bois, into which his founding title was rendered by the Duke of Buckingham: and, furely, to talk of the Chief Conful Good-part, would be as abfurd as the epithet would be inapplicable. Stone the Apostle, we have only heard of one bearing that name, who had also the fate of a prophet; for his doctrines were no otherwise honoured in his own country, than by the notice of the King's attorney-general.

In one respect, where we were entitled, from Mr Southey's well known poetical powers, to hope for great satisfaction, we have been most wosfully disappointed. Instead of a version of the sonnets which occur in Amadis, executed by Mr Southey, he has been pleased to present the public with what himself calls the shadow of a shade, the translation from Herberay's French into Anthony Munday's English. We are surprised, that, in a book to which he places a name well known in the poetical world,

he should admit such doggrel as,

I lost my liberty, while I did gaze
Upon those lights, which set me in a maze;

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be better employed in giving the public a new edition of the former translation, which is now become extremely scarce; and his learning and talents for literature would find no trivial employment in correcting mistakes, and collecting illustrations from cotemporary writers.

Antile & Gut, by Souther and by Role.

And of one feet, am now become a thrall.

Put to fuch pain, thou fervilt thy friends withal:

And yet I do efteem this pain a pleafure,

Endured for thee, whom I love out of measure.

Leonor, sweet rose, all other flowers excelling,

For thee I feel strange thoughts in me rebelling, * &c.

There is another piece of incomprehensible nonsense, beginning,

Sigh that the victory of right deserved, By wrong they do withhold, for which I served; Now sith my glory thus hath had a fall, Glorious it is to end my life withal, ' &c.

The difgrace of this abominable stuff does not rest with poor Anthony Now. Now, whose talents could afford nothing better; far less with the Spanish author, whose sonnets, though quaint, are not devoid of some merit; but with Mr Southey, whom we seriously exhort, in the name of poetry and common sense, to give us a decent translation in his next edition, and no more to shelter himself behind Munday for his verse, than he has done for his prose.

So much for the profe edition of Amadis, with the perusal of

which we have been highly gratified.

We have already given it as our opinion, that the history of Amadis was, in its original state, a metrical romance. We remember, also, to have seen an Italian poem in Ottava Rima, called Amadigi, chiefly remarkable for the whimsical rule which the poet had imposed upon himself, of opening each canto with a description of the morning, and closing it with a description of the night. Mr William Stewart Rose has now favoured the public with a poetical version of the First Book of Amadis, containing the birth and earlier adventures of the hero, and closing with his gaining possession of Oriana.

In our remarks upon this poem, we are more inclined to blame, in some degree, Mr Rose's plan, than to find fault with the execution, which appears to us, upon the whole, to be nearly as perfect as the plan admitted. Mr Rose has indeed stated his pretensions so very modestly, that perhaps we are warranted in thinking, that a culpable degree of dissidence has prevented him from assuming a tone of poetry more decided and animated.

That the extract I now present to the public, ' says Mr Ross, 'is closely translated, I cannot venture to affirm. I have, I concess, attempted to introduce some of those trisling ornaments, which even the simplest style of poetry imperiously demands, and

have,

have, in many instances, attered the arrangement, and very much contracted the narration of the original. I than, however, that I shall not be convicted of having, in my tailing deviations, introduced any thing which is at variance with the spirit or tone of the celebrated romance.

With the alterations and abbreviations of Mr Rose, we have not the most distant intention of quarrelling; on the contrary, we think that his too close adherence to his original, is the greatest defect in the book. Mr Rose was not engaged in translating a poem, but in composing one; the story of which was adopted from a profe work. We therefore do not conceive that he was obliged to limit himself to trifling ornaments, or to the very simplest style of poetry. Even in modernizing ancient poetry, and that, too, the poetry of Chaucer, containing no small portion of fire, Dryden thought himself at liberty to heighten and enlarge the descriptions of his great master. But in his versions from profe pieces, (in the tale of Theodore and Honoria, for example), he borrowed from Boccacio only the outline of the ftory: the language, the conduct, and the fentiment, were all his own, and all in the highest strain of poetry. In like manner, we cannot fee why Mr Rose should have thought himself obliged to follow in any respect the prose of Herberay, while he himself was writing poetry. We can eafily conceive that a profe romance may be converted into a metrical romance or epic poem; but we cannot allow, that there ought to subsist betwixt two works, the style of which is so very different, the relations of a translation and an original work. In confequence of Mr Rofe's plan, it appears to us that his poem has fuffered fome injury. The necessity of following out minutely the profe narrative, occasions an occasional languor in the poem, for which simple, and even elegant verification does not atone. We will, however, frankly own, that the casual circumstance of having perused Mr Southey's profe work before the poem of Mr Rofe, may have had fome influence upon our criticism; since our curiosity being completely forestalled, we may have felt a diminished interest in the latter, from a cause not imputable to want of merit.

The avowed model upon which Mr Rose has framed his America, is the translation of Le Grand's Fablicum, by Mr Way; attained what he proposed. An easy flow of verse, partaking more of the school of Dryden than of Pope, and chequered, occasionally, with ancient words and terms of chivalry, seems well calculated for the narration of romance and legendary tale. The following passage is a successful imitation of Chaucer:

To tell, as meet, the could feaft's array,
My tedious tale would hold a fummer's day:
A let to fing who mid the courtly throng'
Did most excel in dance or sprightly song;
Who first, who last, were feated on the dais;
Who carped of love and arms in courtliest phrase,
What many minstress harp, what bratchets he
The seet beneath, what bawks were placed on high.'

We do not pretend to fay, that Mr Rose's poetry is altogether free from the common places of the time. Such lines occur as these:

Nearer and nearer burts the deafening craft, Athwart the lurid clouds red lightnings flash.

But if Mr Rose's plan prevented him from aspring to the higher slights of poetry, he never, on the other hand, disgusts the reader by finking into bathos. We are persuaded that the public would be interested in a modern version of some of our best metrical romances by Mr Rose. We are the more certain of this, because we have read the notes to Amadis with very great satisfaction. We pay them a very great complument, indeed, when we say, that they resemble, in lightness and elegance, though not in extent of information, those of George Ellis to Way's Fabl.aux.

ART. XI. Observations on Coural Hernia; to which is prefixed, a General Account of the Varuties of Hernia. Illustrated by Engravings By Alexander Monro, Junior, M. D. F. R. S. E. and Professor of Anatomy and Surgery in the University of Edinburgh. 8vo. pp. 120. Longman & Rees. 1803.

Tr is often difficult to judge with perfect impartiality of the work of one who comes recommended to us by so many extrinsic titles to respect. Our expectations are naturally influenced by the situation and opportunities of the author, and have an unfortunate tendency both to enhance his merits and to aggravate his desects. If the book correspond on the whole with the anticipations we have indulged, we give the author full credit for every incidental display of genius it may contain, and dwell with satisfaction on every enlightened sentiment and judicious remark. But is, on the other hand, the general strain of the performance be rather below what might have been expected from the state of the science, and the apportunities of the individual, we soon become unusually quick-sighted to all his impersections; and can scarcely divest our-lights of a certain portion of irritation and distatisfaction, that

would not perhaps have been excited by an anonymous publication.

The work before us is the first production of the Professor in the highest branch of the medical department in the University of Edinburgh: and from an author in this situation, holding at his command all the resources of a great national museum, and almost the whole combined information of the country, and engaged to maintain not only his own reputation, but that of the school in which he teaches, it was certainly natural for us to expect a work, rich in observation and splendid in execution. If the country of our readers should take up the book, as we did, with these impressions, they will propably soon come to comprehend the seelings of disappointment with which we proceeded in the perusal of it.

We willingly confess, however, that a little more consideration has convinced us of the folly of measuring this production by so lofty and gigantic a standard: it is but justice to recollect that it is the work of a young man, to whom every thing cannot be at once familiar, and who is laudably anxious to give some public and early proof of the industry by which he is to show himself worthy of the situation to which he has been elevated. We are persuaded, indeed, that it is by this meritorious solicitude alone, that the author has been induced to venture before the public with a treatise on so important and delicate a subject, and are therefore disposed to admit of every apology for the impersections which it

may be our duty to point out in it.

The work before us professes to treat particularly of Crural Hernia, and to fet out with a systematic explanation of hernia in general. It made its first appearance, we understand, in the Royal Society of Edinburgh, and is now laid before the public, with all those corrections and improvements that may be supposed to have been suggested by the remarks of that learned Body. If we were inclined to give a short and specific character of the book. we should say that it consisted too much of a series of unconnected observations, and contained rather an ostentatious display of the author's acquaintance with rare and extraordinary cases, at the fame time that they are scarcely ever detailed in such a manner as to communicate much instruction to the reader. It is chargeable also, in some degree, with a fault that is more common, and more baneful in books of medicine than works of any other description: we mean, that jealous partiality with which an author magnifies any little original remark or hint of a theory into a doctrine of difproportionate magnitude, and dwells upon it with a degree of complacency and copiousness, which he is often obliged to compenfate, by retrenching fome of the most important parts of the subject.

In a fubject, however, of this great and terrible importance, where the lives of multitudes come to frequently to depend on the decision decision and dexterity of the surgeon, we cannot content ourselves with shele general observations, but must be allowed to go somewhat more minutely into the decirines and observations of the author.

Passing over the sew introductory sentences, we are somewhat abruptly arrested by this general definitions

By the word Hernia, is generally underflood, in the language of furgery, an external tumour, formed by a protruition of the bowels through one or other of the openings through the abdominal muscles, where the untibilical, spermatic, or crural vessels pair out, or round ligament of the female uterus.

This definition, we are afraid, will not be found to be very accurate. A hernia is not an external tumor; nor is it formed by the bowels protruded through one or other of the abdominal mufcles. In many instances, it is not external; nor can it be faid to form a tumor at all. It is produced by the pressure of the mufcular parieter of the belly. The mufcular fibre acquires great strength by action; and the protrusion, therefore, takes place betweet fome of the tendinous expansions: and often falling down betwixt the womb and rectum into the vagina; through the obtarator ligament, betwixt the facro-isciatic ligaments, or through the central tendon of the diaphragm, the protruded part is firangulated. But there is fomething of more importance than even this palpable incorrectness of the definition. A hernia may take place under the crural arch; yet there may be an utter impossibility of deciding on the case by the tactus eruditus, There may be no tumor, while yet the hernia is of that kind in which the lymptoms tun a rapid course, and the patient is soon beyond the reach of affiltance.

Dr Monro makes a division of hernia into acute and chronic. In the former (he observes) the disease comes on rapidly, and is the immediate result of violent muscular exertions: In many inflances, he informs us, it creates a violent degree of pain, and soon proves fatal, from strangulation and instammation of the showers. In the latter, the bowels are gradually protruded, are easily returned, and remain down without strangulation: so that such hernia have even continued for life without great inconvenience.

This division of the subject is so far good; but it does not present a persect or impressive account of the real distinctions of hernia. It does not mark the cause of this distinction, nor does it lead to the deductions which are truly useful in practice. A best distinction is, to mark where there has been prediposition, and it must at laxity of the openings of the abdominal tendons; and

where, on the other hand, there has been little or no imperfection in the parts, but where the hernia has been produced by great violence and firaining. If, for example, after a fevere and long continued engagement at fea, a young, robuft, and healthy lad, be fuddenly bent down with extreme and enervating pain, and a finall, firm, and unelastic tumour be felt in the groin; he is in the utmost danger, for the opening is small. The violent straining upon the rope, and at the same time an attempt to throw out the carriage of the gun with his foot, has brought down a small piece of the gut. In this case, the attempt at reduction without incision, will often fail; nay it will most probably aggravate the symptoms, and the inflammatory stage will quickly lead to gangrene. Suppose again that a groom, stout, healthy and active, leaps into his saddle with so sudden an exertion as to bring down a hernia; it has the same character, being small, hard, painful, and dangerous.

Opposed to these cases, is that of predisposition, where there has been no violence. A boy has had a tumour from his infancy; or the patient is a man advanced in life, of a fat and relaxed habit; he has selt a sullness in the groin, which has increased gradually, but subsides when he lies down at night; it makes a slow progress, and the symptoms are mild, and by no means alarming; and when, from the irregularity of his bowels, or other accidental circumstance, he requires the affistance of a surgeon, the hernia is easily reduced. These are the extreme cases; and by studying the cause, and attending to the degree of violence, the hardness or softness, and elasticity of the tumor, and the urgency of other general symptoms, the surgeon will in general be able to form a judgement of the propriety of reiterated efforts to reduce the hernia by the hand, or the danger of violence from this rough manussem, and the necessary of incision.

The danger to those who have long laboured under the inconvenience of a hernia, and who wear a truss, is, that by the compression which is necessary to support the parts, there is produced fuch a degree of callofity or rigidity of the furrounding cellular membrane, with thickening of the neck of the fac, that when, by some unusual exertions, the hernia descends either partially or entirely, the patient comes nearly into the situation of those in whom hernia has been produced without any predispolition to the disease, and in whom a small portion of intestine has descended into a narrow and contracted passage. When, on the other hand, the bowels are allowed to remain down, the tumor increases from day to day; and there is danger of strangulation, from the gradual thickening of the neck of the fac; from some strain, and consequent inflammation and swelling of the cellular membrane, or condensing and conglomeration of the omentum; from

from irregularity of the action of the intestine, included in the intesting; or from collections of indigestible matter within it.

The most important section of a treatise on hernia, must be that which relates to the fac; because all the speculative points, of chief confequence, are connected with this department of the subject; and it is here that the furgeon has to encounter the greatest difficulties in practice. But, instead of finding, in this treatise, a learned, comprehensive, and practical view of this subject, we meet with nothing but the wanderings of a mind led aftray after curious and strange things, without any sober impression of what is truly useful and important. We learn, here, that the peritoneum forms the herniary fac; but we are not informed how unlike to the internal peritoneum the fac of a hernia becomes: We are not informed how it connects itself by adhesions; how it is obscured by the condensing of the cellular membrane, and the attachment of glands; how the ring and fac coalefce; and how difficult it often is to diftinguish their limits. We find that our author has feen thick facs and thin facs, and facs through which the vermicular motion of the intestines could be distinguished: he has seen also the transparent sac of an umbilical hernia! We can believe that he has feen much; but we should have been better pleased, if he had pointed out to us the refults of his extensive observations, and either traced the analogies by which these varieties are connected in the general fystem of pathology, or indicated the advantage that practice is likely to receive from his flight notice of those rare and extraordinary cases.

We have been delighted with the display of morbid anatomy, which the museum of Mr J. Hunter affords; while we were chagrined and disappointed with the imperfections of the histories that are now to be obtained of these important cases; doubly important, from having been under the observation of such a man. We did not think, however, that Dr Monro would have had recourse to this collection, without pressing necessity; and we cannot help supposing that he has been rather unfortunate in his selection of a case. For, from the engraving with which we are here presented, and from the expression of Mr Hunter, in which he fays, it is an example of the manner in which a herma may be cured, or the mode in which an old hernia is formed, we should fear that our author has mistaken the case. There is no fuch thing as an old hernia, in the sense in which we speak of an old mal-pit; and we conceive, that an old herniary fac must have been meant. In this view, the plate is intelligible; for it is a fac inflamed and adhering, so as to present several compartments. We cannot vouch for the accuracy of this interpretation; but merely recommend a second examination of the preperation; for, to consider this case of Mr Hunter as a collection

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of four herniary facs thrown together, and communicating, feems

to us a most unlikely supposition.

Connected with this subject of the herniary sac, we have here recalled to our notice the propofal of the elder Dr Monro, for reducing the hernia without opening the fac. Although this proposal be antiquated, yet this alone should not take from its importance. And as it comes from an authority which we so highly respect, we proceed to give our reasons for considering it as impracticable. In this operation it is proposed to operation thin and tendon only, without opening the fac. When a position of. the intestine is sixst protruded, the peritoneum, which is carried before it, has its natural character, being a thin and dilatable membrane; and the fituation of the parts is fuch as an anatomist would make in the dead body, in order to demonstrate the. relation of parts. Were the furgeon, then, to operate at the time. of the rupture coming down, while yet the fac has not formed its adhesions, and the tendons of the muscles are evidently embracing and constricting the peritoneal sac, he might, after a neat diffection, fucceed in reducing the portion of the gut; the fac either being pushed up with it, or being allowed to remain down. But, even in the case where the progress of the disease is rapid, and the danger great, we do not find the state of the parts to be fuch as will admit of the proposed operation.

When a hernia slips down, the tendon embraces the neck of the fac, and, with the surrounding cellular membrane, soon coalesces with it; while the sac, quickly losing its dilatability, becomes instanted, thickened, and rigid. Although the tendon of the muscle may be the original cause of the strangulation; yet, in the latter stage, there would still remain, after its removal, a thick unelastic ring, formed by the neck of the sac. In hernias of some standing, what is called the ring (a term which is improperly applied to the splitting of the tendons in their natural state), is, in a still more particular manner, formed by the sac and common membrane, and less by the constriction of the tendons or liga-

ment.

It must be recollected, that the gut has been down for some time without inconvenience: there has, however, arisen a cause of inflammation in the cellular membrane and peritoneal sac; the parts swell; but, of course, the tendons are stationary; they have suffered no degree of contraction; the strangulation arises from the change which has been produced in the neck of the sac, and the contents of the hernia. The tendons may still be considered as the cause, but will not now admit of relief; for the neck of the sac has been moulded to the compressed opening, and remains rigid and unyielding. On the other hand, in the common method.

of coperating, when the sac has been opened, and the intestine exposed, the neck of the sac being cut, it often happens that there is no occasion to cut the tendons; or, by touching it slightly with the knife, the point of the little singer gains all the dilatation which is necessary. We must add, that there is much doubt, whether this proposed operation should produce a radical cure. The necessary consequence of the common operation is, that there is a consolidation of all the parts; the tendon is but little injured, or cut up; the sac adheres, and its cavity is often obliterated. But, in consequence of its being opened by this operation of the elder Doctor Morro, the ligamentous guard is cut freely and widely open; and as there can therefore be no thickening and condensation of parts, of course the patient is left more exposed to a future hernia, than even when they are simply reduced by the hand, without incision at all.

The proportion of cases in which the omentum forms part of the hernia, is very great; and still more numerous are those, in which it is partly the cause of strangulation. When a surgeon reduces a hernia without incition, he feels, at the moment of the happy effort, the flatus croaking under his hand; the tumor diminishes; and the intestines soon after slip up with little assistance. the contents of the protruded bowels having been returned into that part of the canal which is within the belly, the excited contractions of the gut affift in drawing it within the abdomen. But in the reduction of the omental hernia, we have no fuch assistance; we operate on an inert mass; and as this mass has a narrow neck, the difficulty of the return of the venous blood through the ring of the fac, produces a gorging, enlargement, and great depositation of fat in it; while, being compressed in narrow bounds, it adheres together, and forms a mass, bearing a great disproportion to that part which is included in the neck of the fac. It will readily be understood, that this accident forms aneither bar to this operation; for the fac must be opened, and the omentum spread out, before it can be reduced.

These objections which we have stated, do not seem to have occurred to Dr Monro; and, indeed, those which he has men-

tioned are of a very subordinate order .-

They pretend indeed to affign as reasons for their practice, that unless the sac is laid open, we cannot know in what state the bowels are; that the intestines or omentum are liable to mortification; that collections of fetid water are apt to occur, which, on being pushed back into the abdomen, might be productive of mischief; that sometimes the cause of strangulation has been detected, either in the entrance to the sac, or among the bowels protruded; or they tell us there are adhesions

adhesions of the bowels to the inner side of the sac, which ought to be

leparated.

's But such kind of reasoning, if it has weight, goes farther than is intended; for it ought to prevent surgeons from attempting in any case, at least from attempting in most cases, the reduction of a hernia.

4 Yet nothing is more common, than to fee furgeons doing every thing in their power to reduce a hernia; and, in a few minutes or hours thereafter, instead of taking off the stricture by cutting the tendon, laying open the herniary sac, as if the reduction of the bowels would otherwise have been unsafe. Surely no reason can be given why the reduction of the bowels should be safe before the tendon is cut, but unsafe after it is cut.

Now, this leads to useful explanation. When a surgeon is. reducing a bernia by the hand, and by putting the patient into a variety of postures (viz. by the taxis), he knows that there is a certain degree of force which ought to be used; and the superiority of one furgeon over another confifts chiefly in this, that a skilful man knows what exertion he can use with safety, and when it is adviscable to defift. If he goes beyond this allowable degree of force, he is guilty of great imprudence; he excites a rapid increase of inflammation, or actually ruptures the bowel. When, therefore, a furgeon, using his exertion with discrimination and skill, relieves his patient, he is affured that he has not gone the length of injuring the parts, and that the strangulation was not complete, or the disease far advanced; otherwise, his operation could not have been attended with so perfect an effect. He is therefore under no alarm; nor does he conceive the possibility of his having reduced the contents of a hernia, which has advanced fo far towards mortification as to render The distinction, which the Doctor seems to it dangerous. have overlooked, is, that, after all attempts have failed, after a thorough conviction has arisen that the case is a confirmed strangulation, and the operation is determined on, there is a probability, that the disease may have verged to its termination in gangrene; fo that the reduction ought not to be attempted without examination.

We recollect a case which will illustrate this, and, at the same time, be a caution to surgeons, and, above all, to the younger

practitioners.

Certain surgeons, in a provincial hospital, were convoked in consultation upon the case of a poor man, who, after the usual train of symptoms, was sinking in the last stage of an incarcerated hernia. His breathing was weak, his pulse low, his belly tense, and he had incessant sickness. The surgeons, compressions, and he had incessant sickness.

hending the case, yet knowing how deceitful such symptoms sometimes are, examined and attempted the reduction, by such gentle means as they thought the high state of inflammation and tenderness of the parts would bear. An operation having been considered as absolutely necessary, the surgeons were assembled in the morning; when the house-clerk, with no small self-gratulation in his countenance, informed the surgeons that he had reduced the hernia without assistance, and that the man was completely relieved. The poor man was relieved; but it was by the harbinger of death: gangrene had taken place of pain and great suffering—the mortisted intestine was indeed reduced.

But, in considering this question of the operation proposed by the elder Dr Monro, we must not forget our author, and that his intention was to write on CRURAL HERNIA. As introductory to this subject, we are favoured with an elaborate, but impersect description of the crural arch. And here, among other matters of great importance, he has discovered that there are distinctions betwixt male and semale. The Doctor then pays some compliments to Mr Gimbernat, which we really do not conceive to be merited, and proceeds to expatiate on the advantage of his plan of operation.

If there be any particular object more than the intention of writing implies here, it is to draw a parallel betwirt the operation of Mr Gimbernat and the common operation for crural hernia. We are forry to find, however, that our author leaves us without the fanction of his authority for either manner of operating; his judgment is held in complete suspense, between the novelty of M. Gimbernat's operation, and the merits of that description, which he has himself given us of the common method. We shall therefore endeavour to throw out some hims to assist our readers in forming their judgement on this point.

The study of anatomy must certainly be the principal and fundamental branch of education of him who is to attempt the improvement of surgery—but it is not the whole; for, without having observed the parts in their diseased state (not in bottles), and often having watched the skilful surgeon in his operation, and having also practised with his own hands, most erroneous ideas may be entertained. Gimbernat's operation has evidently been suggested by speculation upon the view of parts in their natural state, and not from any observation of the dissiculties which embarrass the surgeon in his operation.

This gentleman, introducing his directory and bistoury on the side of the sac next the pubes (most awkwardly with both his lands), runs them inwards, so as to cut up the attachment of

the poupart ligament to the os pubis. By this rude operation, there is danger of wounding arteries—there is great danger of wounding the intestine; which, being much distended, will, even in the common operation, get before the knife; and much more probably will this happen, when you have got under the protruded bowel, and are cutting with both hands. Those who have seen the operation for the semoral hernia, and have observed the depth of the neck of the sac, and the manner in which the bowel sometimes rises up, and conceals its strangulated part, may form a just conception of the danger of this deep lateral cut. Further, the great soundation, and the strength of the ligamentous connexion of all the lower parts of the belly, is done away by this operation; of course, it must leave the parts open to suture hernia, in a greater degree, than when the operation is performed in the common and approved method.

In regard to the description we have of the operation, as commonly performed, we need only observe, that the author speaks of cutting the tendon, fibre after fibre, without entering the knife deep under the tendon; which is just our idea; but he afterwards alarms us ' with a sweep, and extensive incision.'

In concluding, we may observe, that, through the whole treatife, the author shows a most depraved appetite for strange and uncommon cases, with an unaccountable reluctance to difclose the results of his investigation. Indeed, we are sometimes led to imagine that he requires some external excitement to divulge his fecret knowledge; for he has a way of faying he knows of a case, which seems to imply that his intelligence and information are greater than he chooses to express. mention made of some facts, to which we should object, did our limits permit: yet we must, at all events, protest against the practice related in the case, p. 17. There are also, we conceive, several mistakes in pathology; which, however, we hope will have no very bad influence upon the practice of furgery. On the subject of the diverticula ilii, and the history of the subject of anus at the groin, he shows a want of reading and investigation, that surprised us; and, instead of speculating on the formation of these appendices, we should recommend to the author's perusal Morgagni, Ruysch, and Palin, and the papers of M. Mery and M. Littre (Acad. R. des Sciences), where he will find both sufficient speculation, and well told cases.

With regard to the following subjects, he is exceedingly deficient:—umbilical hernia; congenital hernia; general symptoms; diagnosis and prografic. Indeed, were it not for the glaring titles, we should sometimes have been at a loss to discover the subject of discussion; and yet this small performance is every woll. In. No. 5.

where eked out with large extracts from the most common and

femiliar books.

Upon the whole, we are rather inclined to assign this author a few years of additional probation, before we pals any definitive judgment on his merits as an author, and to look upon his present defects as the confequence of inexperience, and a premature thirst for distinction. As he is necessarily secluded from the practice of furgery, we would advise him, if he continues to write on furgical operations, to converse with those who are most in the habit of performing them, and to enter into all their difficulties. and the occurrences and disappointments they meet with in the practice of their profession. After he has thus made himself master of the facts, let him labour to explain and do away their difficulties and prejudices, inform them of their errors, and relieve their minds of their perplexities and apprehensions. Above all, let him remember, that, in proportion to the rarity of a case, is the smallness of its importance in practice; and let him either cease to boast of his opportunities, or prove more satisfactorily to the world that he has known how to profit by them.

ART, XII. Travels through the Southern Provinces of the Russian Empire, in the years 1793 and 1794. Translated from the original German of Professor Pallas, Counsellor of State to the Emperor of Russia, Member of the principal Literary Societies of Europe, &c. &c. Vol. II. 4to. Longman & Recs, London. 1803.

WHILE France and England were profecuting voyages of discovery over the whole face of the globe, and examining the limits of many regions with a curiofity wholly unknown to those who inhabited them, the Empress Catherine indulged her magnificent spirit, by exploring the empire which she governed; and, without quitting its limits, brought to light as much knowledge, as other princes who sent round the earth to collect it.

To us, whom a few days may convey with ease and security, from one end of our territory to the other, it is a sublime novelty to hear of learned men being absent for years on their travels through the dominions of their Sovereign; ranging from civilized to barbarous, and from barbarous to polished men; and emerging from frost and snow into the sine regions of the sun, under the protection of the same name, and the authority of the same laws.

The principal persons selected by the Academy of Petersburgh for these important excursions were, Mest Lepechin, Guldzen-fiedt, Gmelin, and Pallas.

Cmelin

Gmelin began his travels in 1768 or 1769. His journey was through Moscow and Paulousk to Azof. From this place he passed through Tzaritzin to Astracan; travelled through the north of Persia; returned to Entzili on the south shore of the Caspian; and from thence to Astracan in 1772. He was seized on his return, when only sour days journey from the Russian dominions, by Usmei Khan, a Tartar prince; and expired in prison

at Achmet Kent, in Mount Caucasus.

Guldænstedt, in the year 1769, passed through Tzaritzin and Astracan to the consines of Persia, near the western shore of the Caspian; examined various countries in the eastern extremity of Caucasus; and reached Ossetia in the most elevated part of that range of hills. He proceeded to North Caucasus, Cabarda, and Georgia: from thence he passed into Tmeretia, the middle chain of Mount Caucasus, the consines of Mingrelia, Middle Georgia, Eastern and Lower Tmeretia, and from thence returned to Killar. In the spring of 1773, he set out for Mosdok, and then went upwards to the Malka; thence to the mountains of Beschtan, from which he took the route of Tschekash. From this town he made a tour to Azof, crossed the Kalmius, following at the same time the Berda and the new lines of the Dnieper, till he arrived at Krementschuk, the capital of New Russia, where he was recalled.

Lepechin proceeded to the government of Nishney-Novogorod, to Simbrisk in the province of Kazan, surveyed the course of the river Tscheremschan, and travelled over much of the district of Orenburg. From Astracan he crossed the mountains which separate the rivers Volga and Yaik, and wintered in the Ural of Orenburg on the river Brelaya. In the month of May following. he purfued the course of the Brelaya, came to Ekaterinenburg, advanced into the Ural, and passed the winter at Tobolsk. 1771, he visited the province of Vratka, and embarked at Archangel to visit the coasts of the White Sea. After wintering at Archangel, he pursued the same object, in the ensuing summer, as far as the western and northern coasts; and proceeding to the mouth of the White Sea, returned by the Gulf of Mezen to Petersburgh. During the summer of 1773, he surveyed various parts of the governments of Picore and Mohilef; proceeded along the Duna to the Riga, and Ioon after terminated his travels at Peterfburgh.

Professor Pallas was absent from Petersburgh six years. In 1768, he passed through Moscow and Musom to Casan. After his examination of this province, he passed the winter at Simbrisk. In 1769, he penetrated to the mouth of the river Yaic, where he examined the confines of Calmuc Tartary, and the

neighbouring shores of the Caspian. After returning through Orenburgh, he passed the winter at Usa; which he quitted the sollowing summer, and pursued his journey through the Uralian mountains to Tobolsk. The next year, he traced the course of the Irtish, after examining the Altai mountains; and remained that winter at Krasnoyarsk, a little town on the Yenisei. From Krasnoyarsk he crossed the lake Baikal to Kiatka. Having penetrated into Dania, he went on between the rivers Ingoda and and Argoon: thence, tracing the lines which divide Russia from the Chinese Mongol Hordes, he returned again to Krasnoyarsk. In the summer of 1773, he visited Tara, Yaitzk, and Astracan, concluding that year's route at Tzaritzin on the Wolga; from whence he arrived at Petersburg the ensuing spring 1774.

The travels, of the latter part of which we are now to give an account, were undertaken in the years 1793 and 1794, by the special permission of her Imperial Majesty, for the recovery of the Profesior's health. With this publication, M. Pallas proposes to take leave of the literary world, and expresses, in a very feeling and affecting manner, those warnings of age which have admonished him that he is on the eve of bidding adieu to much more important relations. The first volume of this work contains an account of M. Pallas's journey from St Petersburg to Tzaritzin; remarks made in various excursions on the southern banks of the Volgz; a journey in the spring of the year to Astracan; another from Aftracan to the lines of Caucasus; observations made during a journey along the Caucasus; an account of the nations inhabiting Mount Caucasus; journey from Gengiefsk to Tsherkass and Taganros, and from Taganros to the Taurida:--to the description of which latter country, the volume now before us is exclusively confined.

The population of the Crimea formerly amounted to at least half a million. Its first diminution took place in 1778; when, in consequence of the peace concluded with the Turks, 30,000 Christians, comprehending many artisans and manusacturers, were removed to the country between the Don and the Berda, beyond the sea of Azof. Soon after the Crimea sell under the dominion of Russia, and between the years 1785 and 1788, many thousand Tartars sold their property at the lowest prices, and withdrew to Anatolia and Romelia; whither the surviving individuals of the family of Ghirei, and many nobles, also retired; not to mention those who were killed in the troubles, or afterwards destroyed by the plague: So that, according to Prosessor Pallas, the population of the Crimea is not at present more than 200,000

persons of all nations and conditions.

The

This tour was published in five volumes 4to. by M. Pallas.

The Tartar inhabitants of the Crimea may be divided into three classes. The Nagays, or unmixed descendants of the Mongolian tribes, who formed the bulk of the army of Tshingis Khan, which invaded Russia and the Crimea. These Tartars differ materially from the wandering Nagays, near the lines of Caucasus and the Akhtouba, who speak a language less corrupted by the Turkish dialect, possess more activity and vivacity, a greater disposition to plunder and rebellion—in short, exhibit a purer specimen of the genuine Tartar savage, than their brothers of the Taurida, who are emerging from the pastoral to the agricultural state, and unfolding the first germs of civilization.

The second class is the Tartars who inhabit the heaths, or Steppes, as far as the mountains; and who, in the district of Perekop, still retain some traces of the Mongolian countenance. They devote themselves to the rearing of cattle to a greater extent than

the mountaineers, but at the fame time are husbandmen.

The third class is composed of the inhabitants of the southern vallies bounded by the mountains; a mixed race, which has originated from the remnants of various nations, crowded together an these regions at the conquest of the Crimea by the armies of the Mongolian leaders. They display a very singular countenance, and are confidered by the other Tartars to possess so little of the true Tartar blood, that they call them, in derifion, Mur Tat, which fignifies renegado. They are not unskilful in gardening and vine-dreffing; but are, upon the whole, unworthy inhabitants of the delicious regions they possess. They are so disaffected to the Russian government, that they are always the first to rife in rebellion against it; and in the last Turkish war, were all ordered to the diffance of ten verits from the coast, in order to obviate the danger of their becoming spies and traitors. Profesfor Pallas thinks it would be for the general good, to remove them entirely from these vallies into the interior of the country, and to people their lands with more industrious settlers. These short and violent abridgements of the progress of amelioration, seldom, however, answer the expectations which they excite: it is like transfuling blood, instead of strengthening the system, and disposing it to the process of sanguification.

The Tauridan Tartars, in their love of splendour, in the exclusion of their women from society, and in the unnatural practices which prevail among the other sex, evince some of the

most striking features of Oriental nations.

The nobility and the priesthood are highly respected among them; and in former times, frequently made considerable resistance to the power of the Khan, who was always chosen from the family of Ghireis; which family Professor Pallas, in oppos-

K 3 tion,

tion to the common notions on that subject, will hardly admit to

have been direct descendants of Tshingis Khan.

The religious ceremonies, nuprial folemnities, and other customs of the Tartars, agree in every respect with those of the Turks, which have been so often described by travellers. The practice, however, of polygamy, which we should have supposed more likely to have been adopted than any other, has never obtained among them. Male and semale slaves are not common in the Taurida; but the nobility support great numbers of idle retainers, who accompany them when they make their entry into the towns, and

fwell the pomp of their retinue.

Europe, compared with the despotic governments of the East, enjoys a great liberty of thinking, acting, and writing. There, the activity of the human mind, long fince thoroughly roused, is going on and increasing in velocity. Industry is become a passion; and even pleasure mimics labour in her amusements and relaxations. Tartars and Turks, like all other savages who are not compelled to toil for their daily support, find their minds and bodies to be mere lumber, and are ignorant how to dispose either of the one or the other. A Tartar will sit for whole hours on the same spot, with his countenance turned in one direction, and with a pipe in his mouth which he has not even energy enough to smoke. Hunting alone rouses a Tartar noble from his sloth; and he gets up to pursue animals that seem (if the question is to be determined by dignity of nature) to have almost an equal right to pursue him.

In the vocabulary given by Professor Pallas, the number of words adopted into the Tartar language from the Genoese, is very remarkable; a still greater number of Greek words has found its way into the same language: But the Professor will not allow, in conformity with the opinion of Busbek, that any vestige of the Gothic is perceptible in the different Tartar dialects. However savage the Tartars of the Crimca may be in other particulars, in the science of eating they rise above themselves. They have so far retinquished their antient food of horse-sich, that they will only seed upon colts; and to this diet is added forced-meat balls wrapt in green vine or forrel leaves, various fruits filled with mincemeat, stuffed encumbers, and a great variety of learned dainties, which Mrs Glasse herself would not disdain to add to her high-slavoured catalogue.

The penintula of the Crimea, is the only region of the Russian empire in which almost all the products of Italy and Greece might be reared with success, and in which many of those products grow spontaneously. Wine, silk, sesame, olive, cotton, the cotton of the cotton desired wariety of dyeing drugs, which are at present imported from

from the Baltic and the Caspian at a great expence, might be encouraged either in this peninsula or on the banks of the Kuma, and Terek; and by some obvious improvements in the present breed of sheep, woollen manusactures might be pushed in the Crimea to a great extent. The impediments to the prosperity of the Crimea are, the slothful and savage character of its Tartar inhabitants,—their disaffection to a Christian government,—the deficiency even of such bad population as the Tartars might afford,—the injudicious conduct of the Russian government in making the grants of the Crown lands the instrument of court favour and intrigue, rather than the incitements to industry, and increase of numbers;—to which causes is to be added, the great insecurity of landed property, from the inaccurate specifications of the Crown grants, and the tricks and chicanery to which that inaccuracy has

given birth.

The seasons in the Crimea are very irregular. In 1795-6, in the beginning of February, all the spring flowers were everywhere seen in full bloom, though during the remainder of the month they were buried under a deep fnow. The fevere winters of 1798-9 and of 1799-1800, continued from the end of October till April, with various degrees of cold, accompanied by dreadful hurricanes, such as to fink the thermometer 13° below the freezing point. During the last of these winters, the Sea of Azof, the Bosphorus, great part of the bay of Kassa, and several creeks of the Euxine, were completely frozen over. The winds are very variable, bringing from the four cardinal points the same species of temperature as with us. The climate, however, is so unsettled, that the barometer often varies six or eight times in 24 hours. The fummers are not less inconstant than the winters. The most salubrious of all seasons in the Crimea is the fpring, which generally continues from March till the end of May. At that season, every thing in the vegetable world which is grateful in smell, or beautiful in colour, lends its aid to gratify the fenfes. The weather then is generally fettled and ferene, the heat moderate and refreshing: numerous slocks of theep are feen moving in every direction, at the fame time that village flocks are scattered over the pastures. Amid such peace, and freshness, and tranquillity, mere existence is a pleafure; and the mind loathes those studied enjoyments which it re-K 4 forts

^{*} The Professor would perhaps consider this uncertainty of the climate as capable of being remedied, by an increase of cultivation and population. He firmly believes, that the temperature of a country is man terially altered by the number of fires which are lighted in it. This appears to us to be rather too fine a speculation.

forts to at other periods for amusement and support. The most unhealthy season in the Crimea, is the autumn; at which time, bilious severs, remittent, or intermittent, prevail to a great extent. With the exception of these severs, this country might be considered as one of the most healthy in the world.

The frequent failure of crops would (but for the careless style of cultivation) be a fact totally unintelligible in a country, which paid fuch ample tributes, and fent fuch magnificent gifts of grain at the earliest period in which we are acquainted with its history to The Crimea has erroneously been considered as the granary of Constantinople; an opinion which must in a great measure be attributed to the constant importation of corn from Little Russia by carriers who take falt in exchange for fuch commodity. the native wines of the Crimea were encouraged by the imposition of protecting duties on foreign wines, all the interior governments of the Russian empire might, in the opinion of the Professor, be supplied from that province; and the sum of one million and a half of rubles, now paid for foreign wines, be deducted from an unfavourable balance of trade. The growth of filk has been but faintly attempted in the Taurida, though Professor Pallas thinks it is not only capable of that product, but of the growth of fugar alfo. In this latter opinion, however, Profesior Pallas appears to us a little too fanguine; it is very inconfistent with all he has previously said of the instability of the climate. The affertion may be true partially, as we say grapes will grow in England, or apples in Scotland-courteously inferring, that what is true of a few select and sunny spots, is true of the whole climate.

By the emigration of the Greeks and Armenians, industry, which had not been very remarkable in Crim-Tartary, under the government of the Khans, was almost extinguished; and though this country has been subject to the dominion of Russia above sisteen years, there is a deficiency of the most necessary artisans, as well as of manufactures. Among the latter, that of Morocco leather is the most important; of which the red and yellow skins are in no respect inferior to those of Turkey. The cutlery of the Taurida is much esteemed for its excellent temper. Since the year 1795, some Greeks have employed themselves in burning

foda.

^{*} The Professor wishes to lay the prevalence of the Itch upon the climate; but this disorder, we have some reason to think, is by no means confined to hot climates.

[†] Professor Pallas advances occasionally some very singular opinions; heaffeaks of the earth being manured in the Crimea by snails crawling upon it. We would not rashly deny any thing advanced by so great a maturalist; we only beg leave very humbly to doubt.

foda. To these articles of exportation are to be added butter, salt, wheat, hides, and some coarse linen. The principal imports are raw and manusactured cotton, silk stuffs of various patterns, the wines of the Archipelago, brandy, dried fruits, and leaf tobacco. The value of exportations amounts to from 400,000 to 500,000 rubles. The importations fall short of that sum by 100,000 rubles; and the balance is principally paid in the base Turkish silver coin which is extensively circulated within the Peninsula. The foreign bankers, indeed, are eager enough to avail themselves of the high estimation in which the Tartars hold a genuine Mahometan coin; so that, even after its value had been raised 22 per cent. under the present Sultan, it still maintained its superiority over the Russian silver money, the intrinsic value of which exceeded that of Turkey in the above mentioned proportion.

Such is the general account which Professor Pallas has given us of this celebrated country; which, though now of small importance, except as a military station, may hereafter become one of the richest appanages of the Russian empire. It is poor and distressed at present; because it has not yet recovered the sudden and violent change from a Mahometan to a Christian government, one of the most striking and complete vicissitudes which it is posfible for any country to experience; a viciffitude which has banished the greater part of the inhabitants of the Taurida, and rendered those which remain, incorrigibly disaffected to the Russian government. What the progress of its prosperity may be, when the remembrances of this revolution are foftened away, must depend, of course, upon the wisdom and liberality of that policy which the Russian government adopts in the management of its colonies. It must be notoriously deficient in both these points, if it can prevent that aggrandizement which Nature has done fo much to produce.

We are under the necessity of saying little of the merits of Professor Pallas; because no writer of travels is better known to, or received by the public. With his talents as a naturalist, every body is well acquainted: he is extremely accurate; and yet, though we are persuaded that he tells nothing but the truth, it is probable that his official situation under the government has prevented him from telling the whole truth. These scientistic envoys must have known, as well as if they had read it in their instructions, that they were to bring back no discoveries unpleasant to Imperial ears. We rather pity than blame them; and are convinced, in the instance of Professor Pallas, that he has struggled hard to be as dutifully tame as he ought; and that he has a spirit abhorrent of injustice and political abuses. A

certain tameness in style, and prolikity in topographical relation, appear to fit upon him a little more naturally. Through some chapters of his book, not much more is to be learnt, than that he went up a hill in this place, and down it in that; that the first part of the road is woody, and the second is not woody. Here there is a large pond, and there a small pond; and, in a third place, no pond at all. The most valuable topics are all difcuffed in a few separate chapters; so that the plums and sweetmeats are all crowded into a small space, and the larger portion left infipidit plain. Pallas, however, is not of that description of travellers, who profess to amuse by anecdotes about waiters and chambermaids: his object is to make the world minutely and thoroughly acquainted with the country which he is fent to explore. If he is dry, he is perspicuous and accurate; if he is unamusing, he is authentic: and, long after many witty pamphless, called books of travels, have perished, the works of Pallas will be studied as genuine and valuable descriptions of the countries through which he has paffed.

ART. XIII. An Historical View of the English Government, from the Settlement of the Saxons in Britain, to the Revolution is 1688. To which are subjoined, some Differentions connected with the History of the Government, from the Revolution to the present time. By John Millar Esq. Professor of Law in the University of Glasgow. Four Volumes 8vo. London. Mawman. 1803.

plan that was announced by the author in his lifetime. According to that plan, the history of the English government was to have been brought down, in the concluding part, from the Revolution to the present times. The manuscript of this portion of the work, however, we are informed by the present editor, was not left in such a finished and correct state as to be laid entire before the public. The Historical View, therefore, is only brought down to the Revolution in 1688; and a selection from the materials for the subsequent period is given in the form of separate differtations. The two first volumes contain that portion of the work which was formerly published in 1786, including the history of the government previous to the accession of the house of Stuart; and the two latter the history and differtations that belong to the subsequent period.

The reputation of Professor Millar, we are inclined to think, stands somewhat higher with his pupils, and those who had the benefit of his acquaintance, than it is likely to do with those who may marely peruse his publications. The constant alaciny and

vigour of his understanding, the clearness and familiarity of his illustrations, and the great variety of his arguments and topics of discussion, together with something unusually animated and impressive in his tones and expressions, gave an interest and a spirit to his living language, that can scarcely be traced in his writings. All that vivacity and facility of statement, all that dexterity of reply, and power of picturefque illustration, that delighted in conversation, and fascinated in his lectures, appear to have evaporated as foon as he took the pen into his hand. In his style and manner of speaking, there was something very characteristic and peculiar. The composition of his writings is of a very ordinary description. He writes indeed with great clearness and solidity; and is never for a moment either trifling, loquacious, or abfurd; but he is not often very captivating in his manner, and makes us feel the queight of his matter rather too sensibly in his style: it is a style, in short, that is somewhat heavy, cold, and inclegant; and his works, though abounding in good sense and forcible expression, are apt to fatigue the reader, from the want of that variety and relief, of which his spoken language afforded so eminent an example.

The style of conversation, indeed, in which most of his lectures were delivered, is not very eafily adapted to the purposes of publication. The great merit, and the great charm of this style confift in its varying and judicious adaptation to the tafte and fituation of the hearers, and in the facility and animation with which every thing is communicated and explained. In addressing the public and potterity, however, no adaptation of this kind can take place: a greater referve must be assumed: our positions must be fortified with greater care, and our conclusions enforced with more authority. In the deliberation and anxiety that necesfarily accompany these operations, the spirit of our first conceptions, and the colouring of our original language, are apt to fly off: We are afraid to commit our dignity among strangers, by the use of a familiar or a sudicrous expression: We put our ideas into a dress of ceremony, and feel the oppression and constraint of it the more, for having been accustomed to the ease and the lightness of a less cumbrous drapery.

But though, for these, and for other reasons, the written style of Mr Millar be certainly inserior in force and effect to his conversation, the character of his genius is very clearly imprinted upon both: and though it must go down to posterity with some disadvantage from his contempt or unskillfulness in the art of composition, his writings will long continue, we have no doubt,

to command the respect and admiration of his readers.

The diffinguishing feature of Mr Millar's intellect was, the great clearness and accuracy of his apprehension, and the singular fagacity

gacity with which he seized upon the true statement of a question, and disentangled the point in dispute from the mass of sophisticated argument in which it was frequently involved. His great delight was to simplify an intricate question, and to reduce a perplexed and elaborate fystem of argument to a few plain problems of common fense. Though an expert dialectician himfelf, and ready enough to acknowledge the merit of any ingenious paradox that he had occasion to expose, he had but little indulgence for those more diffuse and imposing pieces of false reasoning that rest on the prejudices of mankind, or are produced by the weakness and wavering of the author's own understanding. As there was no man, indeed, that ever made less parade of his own intellectual achievements, there have been few less disposed to tolerate the learned vanity of others. To form a found judgment upon all points of substantial importance, appeared to him to require little more than the free and independent use of that vulgar sense on which no man is entitled to value himself; and he was apt to look with sufficient contempt upon the elaborate and ingenious errors into which philosophers are so liable to reason themselves. To bring down the dignity of fuch false science, and to expose the emptiness of oftentatious and pedantic reasoners, was therefore one of his favourite employments. He had, indeed, no prejudices of veneration in his nature; and was apt to regard those minute inquiries in which many great scholars have consumed their days, as a species of most unprofitable trifling. Mere learning did not appear to him to deferve any extraordinary respect; and his veneration was reserved for those who had either made discoveries of practical utility, or combined into a system the scattered truths of speculation.

To fome of our readers, perhaps, it may afford a clearer conception of his intellectual character, to fay, that it corresponded pretty nearly with the abstract idea that the learned of England entertain of a Scotist philosopher; a personage, that is, with little or no deference to the authority of great names, and not very apt to be startled at conclusions that seem to run counter to received opinions or existing institutions; acute, sagacious, and systematical; irreverent towards classical literature; rather indefatigable in argument, than patient in investigation; vigilant in the observation of sacts, but not so strong in their number, as skilful in their application.

There is one attribute of a philosopher, however, which Mr Millar must have been allowed in all countries to possess in great perfection. He wondered at nothing; and has done more to repress the ignorant admiration of others than most of his contem-

poraries.

poraries. It was the leading principle, indeed, of all his speculations on law, morality, government, language, the arts, sciences, and manners—that there was nothing produced by arbitrary or accidental causes; that no great change, institution, custom, or occurrence, could be ascribed to the character or exertions of an individual, to the temperament or disposition of a nation, to occasional policy, or peculiar wisdom or folly: every thing, on the centrary, he held, arose spontaneously from the situation of the fociety, and was fuggested or imposed irrelistibly by the opportunities or necessities of their condition. Instead of gazing, therefore, with stupid amazement, on the singular and diversified appearances of human manners and institutions, Mr Millar taught his pupils to refer them all to one simple principle, and to confider them as necessary links in the great chain which connects civilized with barbarous fociety. By the use of this master principle, he reconciled many of the paradoxes of history and tradition, explained much of what appeared to be unaccountable, and connected events and circumstances that seemed to be incapable of combination. While the antiquary pored with childish curiofity over the confused and fantastic ruins that cover the scenes of early story, he produced the plan and elevation of the original fabric, and enabled us to trace the connexions of the scattered fragments, and to determine the primitive form and denomination of all the disfigured maffes that lay before us.

But though it is impossible not to be delighted with the ingenuity and happiness of the combinations by which these explanations are made out, and though it would be absurd, after what has been done, to call in question the soundness of the philosophy in which the principle is sounded; it must not be diffembled, that Mr Millar's confidence in its infallibility was greater than could always be justified. As his object was to obtain great clearness and simplicity in his theory, he was apt, when satisfied, upon the whole, of its truth, to pass somewhat hastily over all that could not be easily reconciled to it. His greatest admirers must admit, that he has sometimes cut the knot which he could not untie, and difregarded difficulties which he was not prepared to overcome; that he has afferted, where he ought to have proved; advanced a conjecture for a certainty; and given the signal of triumph, when

As his habits and dispositions led him chiefly to the exertion of his intellectual and argumentative faculties, he had made no great proficiency in the finer or more elegant departments of literature. His imagination, though extremely active and vigorous in the coinage of illustrations and topics of persuasion, was not very easily excited by the more exquisite and delicate beauties

the victory might be confidered as doubtful.

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kinds of poetry; and was apt to treat the extravagances and refinements with which some critics are so much enchanted, with a degree of ridicule which these qualities are not in general well calculated to endure. Of the more substantial merits of composition, however, he was an acute and able judge; and carried into the walks of literature the same powerful and sagacious judgment that availed him so much in the higher regions of philosophy: All the remarks which he has made upon these subjects are sound and ingenious; and though they do not indicate, perhaps, a mind of very nice sensibility, afford satisfactory evidence of the variety, as well as the solidity of his talents. Upon the subject of language, in particular, he had made many prosound and original observations; though we do not know that he left any thing written upon the subject in a fit condition for being

laid before the public.

In his politics, Mr Millar was a decided whig, and did not perhaps bear any great antipathy to the name of a republican! yet there never was any mind, perhaps, less accessible to the illutions of that fentimental and ridiculous philanthropy which has led so many to the adoption of popular principles. He took a very cool and practical view of the condition of fociety; and neither wept over the imaginary miseries of the lower orders, nor shuddered at the imputed vices of the higher. He laughed at the dreams of perfectibility, and looked with profound contempt upon all those puerile schemes of equality that threatened to subvert the distinctions of property, or to degrade the natural aristocracy of virtues and of talents. At the same time, he was certainly jealous, to an excess, of the encroachments of the regal power; and fancied that, in this country, the liberty of the fubject was exposed to perpetual danger, from that patronising influence which feemed likely to increase with the riches and importance of the nation. Although he had no vulgar or jacobinical antipathies against the power of a monarch, or the privileges of nobility, he thought that the popular part of our conftitution was most exposed to danger from the general diffusion of luxury, the increase of the public revenue, and the enlargement of all our establishments. Upon this principle, he has commonly taken part with the opposition party in all the measures by which they have attempted, for these two hundred years, to limit the prerogative or the influence of the Crown, and to take the controll of public measures more and more out of the hands of the executive. While no man could be more convinced of the incapacity and worthlessness of the clamorous multitude, he thought that the indirect influence of popular opinion was the only

only fafeguard of our liberties; and though incerely attached to the limited form of monarchy established at the Revolution, he seems to have thought that the monarchy itself was the least valuable part of the system, and that most of its advantages might have been secured under another system of administration.

Although he was not always very cool or very moderate in his personal disputation, there is one peculiarity in his political writings that deferves to be mentioned. He not only conducts himself throughout with great calmness and deliberation, but passes from matters of ordinary discussion to the most controvertible points of his subject, without appearing to be conscious of the transition. It is common, as every one must have observed, for a writer, when he approaches to a matter of controversy, or is about to advance an opinion which he knows will meet with opposition, to prepare himself for the contest in one way or another, and to give warning of being confcious that he is going to put off the character of a judge, or impartial spectator, for that of a zealous and determined advocate. An ordinary writer never fails to give figns of trepidation as foon as he enters upon the debateable ground, and feems in general so full either of fear or of indignation, that he can feldom fettle into his ordinary spirits for some time after he has quitted it. Mr Millar, however, whose intrepidity of character exempted him from any feeling of alarm, does no fuch thing thing: He passes from the general speculations of philosophy to the peculiar doctrines of his party, without altering his manner, or feeming to expect a different reception; and delivers the most questionable of his opinions with the same coolness and confidence that distinguishes his statement of the most obvious and indisputable truths. In this way, he avoids the violence and exaggeration that is apt to be engendered in the management of an avowed controverly; and maintains a certain dignity of discussion, that is lost either by bristling suddenly up to repel an antagonitt, or by trying to mollify him with elaborate and ineffectual apologies. The only disadvantage of the practice is, that it is apt to seduce the unwary into the adoption of those contested doctrines, which are thus involved and connected with unquestionable truths, and which they are not directed by any mark to consider as suspicious. For those who have been accustomed to think upon these subjects, this danger, indeed, can scarcely be faid to exist; but it should be remembered, that Mr Millar's books contain the substance of the instruction which he communicated to his pupils, and that it was from them they probably derived their earliest impressions upon subjects of a political nature.

Although the greater part of these characteristic qualities are tobed found in the work before us, and though the statement of them



them may therefore be allowed to form no improper introduction to an account of that publication, we should searcely have indulged ourselves in so full a description of them, if it had not been to supply a defect that occurred to us, on first taking up the volumes in question. Though this work is now published by Mr Millar's representatives at a considerable interval after his death, it contains no biographical account of the author, nor any attempt to delineate the general character of his genius or publications. To the greater part of writers, it would certainly be doing no fort of injury to withhold from the public every thing but what they had themselves laid before it: but wherever the living character is really superior to the writings that remain to illustrate it, we cannot help feeling it as a fort of duty to erect fome memorial, however frail, to its merits; and to endeavour, at leaft, to supply some of the desiciencies that may be found in that picture of himself, which every author exhibits in his works. -We now proceed to make a few observations on the volumes before us.

It is only the latter half of this publication, as we have already remarked, that is new; but, in order to judge of its execution, we must state very shortly the scheme and order of the whole work. It was Mr Millar's design to exhibit an historical view of the English government from the earliest periods of its independent existence, down to the present times. This subject he has divided into three parts. The first, comprehends the history of the form of government that prevailed, from the establishment of the Saxons, down to the time of the Norman conquest. During this period, the feattered tribes and families of barbarians feem to have gradually arranged themselves under the protection of a few great leaders; and the government came gradually to be administered by a great feudal aristocracy. The second period extends from the conquest to the accession of the house of Stuart, and is distinguished by the struggles that took place between the Nobles and the Sovereign, and the gradual predominancy of the latter, in consequence of the divisions that took place among the aristocracy, and the authority that was acquired by a common leader, after the nation began to engage in more extensive enterprises. In this period, therefore, Mr Millar confiders the government to have attained the condition of a feudal monarchy. About the period of the accession of James the First, a still more important change had begun to take three in the constitution of society; the introduction of arts and manufactures had made the internal aspect of the country pacific, and had not only engaged the retainers of the great lands in new employments, but had appropriated to other purpoles the revenues light, which they were originally maintained.

At the beginning of the third period, therefore, the lower orders had rifen into confequence, while the increasing expence of the government rendered it more necessary that they should contribute to the support of it. This gave rise to a series of eventful struggles between the Commons and the Prerogative, which fortunately terminated in what Mr Millar has called the commercial government. This third form was established by the revolution in 1688; and, by the subsequent increase of expence and of public revenue, has contributed to enlarge the influence of the Crown upon one hand, while it has promoted the cause of freedom on the other, by the general increase of riches and knowledge, and the gradual diffu-

tion of political information among the people.

Of this plan, we have already specified how much Mr Millar published in his lifetime, and how much was left unexecuted at In estimating the merit of the part that is now given to the public, it is most natural to compare it with that which went before: and here we cannot help thinking, that there is a manifest superiority on the side of the first publication. It is not natural, we will allow, to expect that researches into the dark and barbarous æras which were treated of in that performance, should excite an equal interest, or afford the same scope for discussion, with those inquiries that belong to a period with which we are so much more nearly connected; and, a priori, it certainly could not have been prefumed, that our attention should have been more powerfully attracted to the inftitutions of the Saxons, than to the errors and misfortunes of the Stuarts. Perhaps there is something in the very barrenness and unpromising aspect of the former speculations, that leads us to relish more highly whatever can be faid with ingenuity or probability on the subject; while the notoricty of the later occurrences, and the facility with which accurate information may be obtained with regard to these, leaves but little scope for discovery, and circumscribes the limits of discussion. The chief cause, however, of this unexpected difference will be found, we believe, in the nature of Mr Millar's plan, and the peculiarity of the talents which he has devoted to its execution. It was his view to illustrate what was obscure or uncertain in the history of the English government. In the remote periods with which he was occupied in the former part of the work, he found obscurity and uncertainty enough; and the greater part of the lights he struck out, were kindled in the midst of utter darkness. In the subsequent part of his talk, however, the facts were pretty well afcertained; and all that remained to be determined, was the merit or demerit of the actors. Instead of an historical inquiry, therefore, we are engaged in a political discussion, and taken away from the pleafant explanation of extraordinary occurrences, to listen to the controversial wranglings of party politicians. But VOL. III. NO. 5.

But when we recollect that Mr Millar's chief excellence lay in tracing the connexion of those steps by which men advance from a barbarous to a civilized state of society, and in pointing out the circumstances that originally suggested or compelled the adoption of particular institutions, we shall see still more clearly, how it has come to pais, that he appears with the greatest advantage in discussing the early periods of our history. At the establishment of the Saxons in England, they were very nearly in the condition that is common to all barbarous communities, and their history might fafely be taken as an example of what would generally happen in that state of fociety. The speculations that arise from the consideration of their proceedings, are connected, therefore, with a very wide and interesting field of discussion. They include, in reality, the general history of the species, and are susceptible of illustration from a great variety of remote and unexpected fources. The combination of these analogous views, and the elucidation that refults from the comparison of unconnected truths, affords as captivating a display of ingenuity, and as pleasing an exercise to the understanding, as is to be met with, perhaps, in the whole range of human speculation. When we draw to the end of that progress, however, the interest of the inquiry is diminished along with its difficulty; and the genius that had fucceeded in explaining obscure usages, may fail to tie down our attention to the adjustment of familiar disputes. There is something less magnificent, and more perplexing, in these modern discussions; and the talents that aftonished us with the first rude sketch of the edifice, may not always be able to engage us with the merits of the finer finishing.

In endeavouring, indeed, to recollect the impressions that remain on the mind from perusing the first part of this performance, we will find that we have been delighted chiefly with the general differtations that it contains; and that it is not the history of Alfred or Edward that enchanted us, but the history of human society. The speculations on the origin of the feudal system of property; on the institutions of tithings, hundreds and boroughs; on the nature of the national council, and on the original functions, and gradual elevation, of the great officers of the Crown-apply to all the European communities, and are even illustrated by references to the usage of remoter nations. In the portion of the work that is now before us, the interest is much less extensive; and the talents that are required for the execution of it, are quite of a dif-The events that took place after the accession of ferent nature. the house of Stuart, are, fortunately for us, of a nature altogether different from those that are to be found in the somals of any neighbouring nation. The principles that are to guide us in our judgement

judgement of them, can no longer be fought for in the common philosophy of human nature, but must be gathered from a particular confideration of the circumstances of this country. events are no doubt sufficiently interesting; but their causes are more limited, and their fuccession seems less regular or necessary. The changes of our government, in short, became, from this period, a fitter object for particular history, but a less suitable one for a general philosophical differtation. If we consider also, that a good part even of those speculations that might be applicable to later occurrences, had been necessarily suggested in the course of the preceding inquiry, we shall easily understand, how a great part of the novelty and interest of the subject has been exhausted, and how a more eventful period has furnished matter for a less interesting discussion. Without supposing any decline of genius, or abatement of diligence in the author, it is easy to conceive, that he could not always be original upon fuch a fubject, and that he must sometimes be forced to borrow from other authors, and oftener to repeat what had been previously advanced

by himfelf.

The first part of the third volume contains a review of the government of Scotland, which is almost a copy, in miniature, and in fainter colours, of the delineation that had previously been given of that of England. The advancement of monarchy was retarded, however, and the reign of the feudal aristrocacy prolonged in the former country, Mr Millar observes, partly by the rugged and inaccessible nature of the territory, which surrounded every great baron with a fort of natural barrier, and partly by the flow progress of those arts and manufactures which were to raife his retainers into independence. The early history of the Scotish Parliament is still involved, however, in considerable obscurity; and all that Mr Millar has concluded upon the subject, is, that during a period of two hundred years, at least, it was composed of the barons, who sat there in their own right; of the dignified clergy; and of a small number of burgestes. In consequence of it never having been divided into two houses, the barous possessed the whole legislative authority; and, in spite of the inflitution of the 'Lords of the articles' which had a tendency to subject it to Royal influence, there is something very remarkwhile in the rude and imperious manner in which this national council appears to have treated their Sovereigh. The following passage, we think, is very curious.

It was the practice in England, as I had formerly occasion to obferve, that an act of Parliament should proceed upon a petition from the two houses to the Sovereign, requesting that some grievance might be radressed, or some branch of the public administration altered. This hymbic

humble and respectful mode of proceeding never had place in Scotland, where we see the national council holding a very different language. They assume a dictatorial tone; avow the enactment of laws by their own authority; and even frequently ordain, without ceremony, that the King shall carry their measures into execution.

Thus, in a statute made in the reign of James the First, it is said, the Parliament has determined and ordained, that our Lord the king shall gar (cause to) mend his money, and gar strike it in like weight

and finences to the money of England *. "

In another statute, the Parliament ordains, that the king shall command the judges to distribute justice impartially between the poor and the rich, and that he shall rigorously punish those who do otherwise †.

In the reign of James the Second, the three eflates order, that courts shall be held at certain seasons throughout the kingdom; and that the king himself shall be in each town when the court is held, or near it, where his council thinks sit.—The three estates have also concluded, that the king shall ride through the realm when information is received that rebellion, slaughter, or other atrocious crimes, have been committed, and shall cause immediate cognizance thereof to be taken ‡.

In the reign of James the Third, the lords, understanding that there has been great floth in the execution of the laws relative to bringing in and keeping the bullion, so as to occasion great searcity thereof, they require, that the king shall put the statutes on that subject sharply in execution, and shall appoint true and able searchers for the time to

come ∫.

The style of the legislature was gradually softened and varied in later times; but the custom of passing statutes in the name of the three estates of parliament is continued occasionally through the reigns of James the Third, of James the Fourth, and of James the Fifth ||.

The course of parliamentary business in England, by which every bill passed through both houses in the form of a petition to the Sovereign, produced, of necessity, a negative in the Crown; for a petition would have no force unless when granted by the person to whom it was addressed. But in Scotland, where statutes were enacted by the general authority of Parliament, there was no foundation for this controuling power of the Monarch. As parliament, in that country, was not divided into two houses, the King does not appear to have constituted a separate branch of the legislature. He seems to have been originally regarded as the president of that assembly, and his voice to have been included in its general determinations. In the early history of the Scot-

^{*} Parl. 1. ch. 25. Black Acis.

[†] Ibid. ch. 49.

[‡] Ja. II. ch. 5. and ch. 6. Black Alls.

[¶] Ja-III. ch. 80. ∥ See inflances of this, Ja. III. ch. 130. ch. 131. ch. 132...... Ja. IV. ch. 37. ch. 82....Ja. V. ch. 4. ch. 102.

ish parliament, we meet with no traces of the interposition of the royal negative upon bills: the style and tenor of those transactions is, at the same time, utterly repugnant to any such idea; and there occur instances of statutes which are known to have been enacted in direct opposition to the will of the Crown. The religious reformation which took place in the reign of Mary, derived its authority from an act of the legislature, to which the assent of the Queen, or of her husband the King of France, was never obtained, but which does not appear, either at that time or afterwards, to have been considered, on that account, as defective.

The Scotish house of parliament had thus the uncontrouled power of legislation. It exercised, also, the exclusive privilege of imposing taxes, together with that of directing their application to the particular purpose, and of superintending the expenditure of the money. It was accustomed to determine peace and war; to regulate the forces; to appoint governors of the fortresses in the kingdom; and to make provisions for arming the people, and for training them up to the use of arms.' Vol. III. p. 46.—50.

The princes did not escape from this state of degradation till their elevation to the throne of England had invested them with a power and a splendor which no Scotish chiestain could presume to rival. Upon this oceasion, Mr Millar very ingeniously remarks—

Dut while the nobles in Scotland were thus eafily reduced under fubjection to the crown, the people at large were not raifed to fuitable independence. In England, as well as in many other European governments, where the prerogative advanced gradually and flowly, in consequence of the gradual advancement of society, the King was under the necessity of courting the lower orders of the community, and of promoting their freedom, from the view of undermining the power of the nobility, his immediate rivals. But in Scotland, after James the Sixth had mounted the English throne, neither he, nor his immediate fuccessors, had any occasion to employ so disagreeable an expedient. They were above the level of rivalship or opposition from the Scotish vasfals of the Crown; and had therefore no temptation to free the vasfals of the nobility from their ancient bondage. A great part of the old feudal inftitutions, in that country, were accordingly permitted to remain, without undergoing any confiderable alteration; and the troublefome forms and ceremonies, formerly used in the transmission or conveyance of landed property, continue, even at this day, to load and disfigure the fystem of Scotish jurisprudence. ' Vol. III. p. 74. 75.

The concluding part of this review of the government of Scotland, contains a theory and delineation of the Scotish national character, which may not only amuse our English readers, as the production of a native, but may serve as an example of the manner in which Mr Millar attempted to account for every thing by

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the general fituation of the fociety. After observing that the reformation in Scotland was introduced by the people against the will of the Sovereign, and of the greater part of the nobility, and that the theological controversies in which they were consequently engaged, had a natural tendency to excite and sharpen their intellectual faculties, he remarks, that the institution and success of our parish schools is rather to be regarded as the effect, than as the cause, of this general desire of information; and that they would not probably have been established, and certainly could not have been attended, if there had not previously existed an effectual demand for the instruction they were calculated to convey. He then goes on as follows:

- While the Scotish nation, in general, received an intellectual stie mulus, by the violent impulse given at the Reformation, the lower and iniddling ranks of the people were peculiarly affected by the flow progress of manufactures. In England, a great proportion of the inhabitants, engaging in active employments, and having their attention fixed upon minute objects, acquired, by their fituation and habits, great professional skill and dexterity; but, in every thing beyond their own trade or profession, remained proportionably destitute of experience and observation. In Scotland, on the contrary, the great body of the people were either idle, or flightly occupied by a coarse trade or manufacture, in which various branches of labour were united; fo that the same persons, though less dexterous or skilful in any one department, were not prevented from attending successively to a variety of objects, from applying themselves to different pursuits, and, consequently, from attaining different kinds of information. From fuch a difference of circumftances, knowledge, as well as labour, came, in the one country, to be minutely divided; and, though a great quantity of this mental treasure was contained in the whole aggregate, yet, from the manner of its distribution, a very small portion commonly fell to the lose of an individual; whereas, in the other country, though the fum-total of improvement was inconfiderable, yet that little was not appropriated in fuch diminutive parcels, but remained, in some measure, as a common flock, which every member of the community might bring at pleafure to market.
- In all parts of the world, it is accordingly observable, that the great body of the people, while they remain in a state of rudeness and timplicity, are distinguished by their intelligence, acuteness, and fagacity; and that, in proportion to their advancement in commerce and manufactures, they become ignorant, narrow-minded, and stupid. But, in the period of the Scotish history now under consideration, the lower and middling classes of the people were placed in the former situation; at the same time that, from the causes already mentioned, the more enlightened part of the nation was not altogether destitute of literature and philosophy. While a great number of all ranks were neither impured.

merfed in business, nor engrossed by the early pursuit of gain, they were at leisure to procure instruction, to go through a regular course of education at schools and universities, and to spread over the community a relish for such parts of learning as was then fashionable. A strong predilection for what are called the scarned professions, became thus very prevalent in Scotland; and men of an active disposition, little accustomed to an ordinary routine of employments, were easily induced to change their professional objects, or even to migrate into foreign countries for

the purpose of advancing their fortune.

The intelligence, fagacity, and disposition to learning, in the common people of Scotland, were inseparably connected with that modefty and referve which makes a distinguishing feature in the manners of all rude and fimple nations. These qualities proceed from the neceffitous condition of mankind antecedent to the improvements of fociety, when, from the difficulty of supplying their own wants, they have little opportunity or disposition for exercising a mutual sympathy or fellow-feeling with each other; and, confequently, are ashamed and unwilling to disclose the secret emotions and fentiments which they know will meet with little attention or regard. That style of distance and referve which the Scots possessed in common with all rude nations. was confirmed, we may suppose, and peculiarly modified by the nature of their government and political circumstances. As the common people were extremely dependent upon the higher classes, they became necelfarily cautious of giving offence, and defirous of recommending themselves to their superiors by an obliging deportment, by obsequous attention, and by a studied expression of xeal and affection. The habits produced by fuch a fituation are, doubtlefs, not very favourable to plain-dealing and fincerity, however they may fit the possessor for the intercourse of the world, and render him expert in smoothing the frowns or improving the failes of fortune.

The national characters bestowed upon the inhabitants of different countries must be received with large allowances for exaggeration and prejudice; though, as they proceed upon general observation, they have usually a foundation in truth. In this light, we may view the character of the Scotish nation delineated by her English neighbours; and, so far as the picture is genuine, it will, perhaps, be in some mea-

fure explained by the foregoing remarks.

The shrewdues, cunning, and selfishness, imputed to the people of Scotland, are merely the unfavourable aspect of that intelligence and sagacity by which they are distinguished above the mere mechanical drudges in the southern part of the island, and by which they are more able to discover their own interest, to extricate themselves from difficulties, and to act, upon every occurrence, with decision and prudence.

They are accused of not being over-scrupulous with respect to the dignity of those methods by which they endeavour to better their circumstances. It is to be feared that this accusation has no very pecu-

liar application to the inhabitants of the north. If it has any real foundation, it must undoubtedly be imputed to the debasing effects of the old Scotish government, and to the long continuance of that poverty and dependence, from which the people, in our days, are but

beginning to emerge.

The national spirit of Scotchmen has been much taken notice of; insomuch that they are supposed to be all in a consederacy to commend and extol one another. We may remark, that, as candidates, either for same or profit, in the London market, they are greatly the minority; and it is not surprising, that in such a situation they should feel a common bond of union, like that of strangers in a hostile country. Vol. III. p. 89—95.

The history of the English government under the house of Stuart, is a subject of licensed and inexhaustible controversy. is a subject, indeed, that seems to be set apart and consecrated as a field of political contention, in which every writer must choose his fide, and engage his antagonist. Into this arena, however, we by no means propose to venture ourselves, and have no inclination, indeed, to detain our readers very long with an account of the combat which Mr Millar maintains in it. The greater past of his treatife upon this fubject may be confidered as a formal answer to Mr Hume's history, or a specific antidote to the poison which he imagines it to contain. Though the differences that prevail upon this fubject will probably never be composed while the constitution of this country exists, it is not a little remarkable, that all parties are now agreed upon the principle by which they should be determined, and that the dispute relates only to the degree or extent of its application. Mr Hume admits, that Charles the First attempted many arbitrary things, and was guilty of great errors and imprudence; and only apologizes for him on the ground of his hereditary prejudices, the necessity of his fituation, and the diftrust which was naturally inspired by the ingreafing boldness and exaction of his Parliament, Mr Millar, on the other hand, without absolutely rejecting these apologies, acknowledges that the Parliament ultimately carried their precaution and their vengeance a little too far; that their patriotifin was tainted with fanaticism; that their republicanism was not feconded by the voice of the nation; and that it paved the way' for the usurpation and military despotism of the protector.

There is undoubtedly a great deal of truth, and a great deal of partiality in the statements of both writers: neither of them suppresses or factics facts; but they both give them that disposition and arrangement that is calculated to favour their party. Mr Hume certainly magnifies the tyranny and arbitrary conduct of Elizabeth, when he compares it to that of a Turkish Sultan,

in order to extenuate the unpopular measures of her successors; and Mr Millar certainly does not make a very satisfactory answer to this representation, when he proves the constitution of England to be a limited monarchy, from the writings of Fortescue, in the days of Henry II. Upon this general point, however, we are satisfied that Mr Millar is in the right, and that the government of England was always considered as distinct from the absolute monarchies that existed over the greater part of the Continent.

On the other hand, though Mr Hume has certainly aggravated the abfurdities of the puritanical leaders of that age, and omitted no opportunity to hold up the fanaticism of the Parliament itself to derision, it can scarcely be doubted that Mr Millar has ascribed to them a far more unmixed and liberal spirit of patriotism, than they really appear to have possessed. It would be a hard problem, indeed, to determine what proportion of their acts should be referred to their impatience of civil oppression, and what to their religious discontents; but that the latter had a very important share in their decisions, and was the main-spring of much of their zeal and activity, does not appear to admit of a doubt.

Mr Millar is rather acrimonious in describing the conduct, and delineating the character of Charles I. He does not scruple to say, that he deserved death upon every principle of justice; although he is inclined to think, that it was not expedient to take away his life, against the general voice and inclination of the community. He considers his execution as a necessary step towards the establishment of a republic; and takes some pains to convince his readers, that a republic is the most suitable form of government, either for a very small or a very extensive country. We subjoin a part of this passage, as a specimen of the coolness with which this author conducts his speculations on the most inflammatory questions in the whole science of politics.

If, by a republic, is meant a government in which there is no king, or hereditary chief magistrate, it should seem that this political system is peculiarly adapted to the two extremes, of a very small and a very great nation. In a very small state, no other form of government can subsist. Suppose a territory, containing no more than 30,000 inhabitants, and these paying taxes, one with another, at the rate of thirty shillings yearly; this would produce a public revenue, at the disposal of the crown, amounting annually to 450,000l., a sum totally insufficient for supporting the dignity and authority of the crown, and for bestowing on the king an influence superior to that which might be possessed by casual combinations of a few of his richest subjects.

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Suppôle, on the other hand, a territory so extensive and populous as to contain thirty millions of inhabitants, paying taxes in the same proportion; this, at the free disposal of a king, would bestow upon him an annual revenue, fo enormous, as to create a degree of patronage and influence which no regulations could effectually reftrain, and would render every attempt to limit the powers of the crown in a great meafure vain and infignificant. In such a state, therefore, it seems extremely difficult to maintain the natural rights of mankind, otherwise than by abolishing monarchy altogether. Thus, in a very small state, a democratical government is necessary, because the king would have too little authority; in a very great one, because he would have too much. In a state of moderate fize, lying in a certain medium between the two extremes, it should seem that monarchy may be established with advantage, and that the crown may be expected to possess a sufficient there of authority for its own prefervation, without endangering the people from the encroachments of prerogative. How far England was in these circumstances at the period in question, I shall not pretend to determine. ' Vol. III. p. 326-328.

There is nothing, we conceive, that shows more conspicuously the unreasonableness of that passion and partiality with which men are still disposed to canvais the transactions of this memocable period, than the unanimity which feems to prevail as to the merits of the Revolution in 1688. It is utterly impossible, however, to conceive, that those who approve of the counsels of Strafford, or lament the failure of the Royal arms in the subfequent contest, should be fatisfied with the constitution that was then established, or feel any great veneration for that bill of rights which declared fo many of the measures which they had attempted to justify, to be oppressive and illegal. On the other hand, it is not easy to reconcile the opinions of an author, who at one time approves of the conduct of parliament in infifting on taking the command of the militia, and the appointment of the judges and governors of forts, together with the right of creating peers, into their own hands; and at another, declares himself delighted with a settlement which secured all these prerogatives to the Sovereign. The truth is, that the pretentions of both parties were altogether inadmissible; and though an ingenious advocate may find apologies for either in the peculiarity of their circumftances and fituation, it is obvious that these only apply to the moral conduct of the individuals, and do by no means extend to the merit or demerit of the actions they performed.

Upon some of the preliminary points, it may be difficult to determine to which side a good patriot should have inclined; but, after the matter had come to the issue of the sword, we are very details of opinion, that the success of the parliamentary arms

was rather to be defired than that of the royalifts. The King's victory would probably have subjected the country for ever to an arbitrary and oppressive government: and if a degree of freedom and parliamentary interference had been permitted, it can scarcely be doubted that the old diffentions would have been renewed, and a fecond war engendered, of greater acrimony, and longer duration, than the former,

Mr Millar is less merciful towards the Usurper, than any of our historical writers that we remember. After enlarging upon his tyranny and injustice, and on the shameless profligacy with which he abandoned all those principles of religion and political independence with which he had let out, he makes the following acute and characteristic remark upon the estimation he has obtained with posterity:

When we examine the conduct of Cromwell in all its parts, it may feem furprising that his memory has been treated with more lenity and indulgence than it certainly deserves. This may be explained from the influence of popular feelings; and still more from the character and fentiments of political parties. His great abilities, the success of all his undertakings, and the respect which he commanded from all the powers of Europe, seized the imagination of Englishmen, and were calculated to gratify national vanity. The partizans of the house of Stuart were, at the same time, induced to hold up the favourable side of the policy of Cromwell, in order to blacken the memory of those patriots who were not less the enemies of that usurper than of the abfolute power of the Crown. They affected to confider the usurpation of the Protector as a necessary consequence of the attempts to restraint the prerogative; were better pleased with the protectorate than with a republican fystem; and seem to have felt towards kim a fort of gratitude for overthrowing that form of government to which they were most adverse. Vol. III. p. 369-370.

Of General Monk, Mr Millar believes that his original intention, in marching from Scotland, was to feize upon the protector's place for himself; and that he only took up the idea of restoring the exiled Monarch, when he saw that the sense of the nation was decidedly in favour of that measure. The conduct of Monk was certainly very mysterious, and, in one point, almost inexplicable; but we do not think there is any great likelihood in the folution of Mr Millar.

In the subsequent part of his treatise, Mr Millar makes but few observations that are not pretty familiar to all who are acquainted with this part of the English history. The precipitate and unconditional reftoration of Charles II., he alleges, entailed upon the nation all its former diforders, and almost ensured a second harvest

harvest of tumult and diffension. To the errors and weaknesses of that Prince, he shows no fort of indulgence; and is a little too harsh and vindictive, we think, even to his unamiable brother, when he seems to regret that he was not compelled to atone for his misconduct by the forseiture of his life, as well as of his dignity. He says of him,

As the character of this Prince procured no esteem, his missortunes appear to have excited little compassion. He possessed no amisble or respectable qualities to compensate or alleviate his great public vices. His ambition was not connected with magnanimity; his ob-Rinacy and zeal were not supported by steadiness and resolution; though, as it frequently happens, they appear to have been deeply tinetured with cruelty. The gravity of his deportment, and his high professions of religion, were disgraced by narrow prejudices, and by a course of diffimulation and falsehood. His fate was not more severe than he deferved: for, certainly, the fovereign of a limited monarchy eannot complain of injustice, when he is expelled from that kingdom whose government he has attempted to subvert, and deprived of that power which he has grossly and manifestly abused. Impartial justice, perhaps, would determine that he was far from fuffering according to his demerits; that he was guilty of crimes, which, in their nature and consequences, infer the highest enormity; and that, instead of forfeiting his crown, he well deserved the highest punishment which the law can inflict. Vol. III. p. 434-435.

The history of the Revolution, and the subsequent settlement of the constitution, is given rather concisely, and without any resections of much importance. This part of the work, however, contains a very clear and masterly account of the parties that divided and agitated the nation during this reign: and the following eulogium on the Prince of Orange, is written with more spirit and animation than the greater part of the volume.

It may be questioned who, among statesmen and heroes, have displayed the greatest genius and abilities. It is yet more difficult, perhaps, to determine, who has been actuated by the most pure and genuine principles of patriotism: But, who is the monarch that has conferred the most extensive benefits upon mankind, will hardly be doubted, while the actions of William III. shall hold a place in the annals of the world. Had it not been for the active, the persevering, and the single exertions of this Prince, it is more than probable that Britain would have been subjected both to an ecclesistical and civil tyranny; that Lewis XIV. would have subdued Holland, and the estates in alliance with the Dutch; that the Protestant interest would, in a short time, have been annihilated; and that the greater part of Europe would either have been reduced to a vast, unwieldy besides.

absolute sovereigns, who, in the struggle for dominion, had been able to retain their independence. But the vigorous desence of the United Provinces, against the attacks of the French King, gave time for opening the eyes of many European princes. The revolution in England broke off at once the connexion of the kingdom with France, and with the Church of Rome; it not only secured her a free government at home, but united her under the same head with the other great maritime state which had arisen in Europe; and this powerful combination was followed by such alliances, and by such military operations, as were sufficient to restore the balance of power, and to frustrate those ambitious designs that were so hostile to the peace and tranquillity of Europe. In sine, the revolution in England kept alive that spark which kindled the slame of liberty in other countries, and is now likely to glide insensibly over the whole habitable globe. Vol. III. p. 483—5.

The fourth volume begins with a slight review of the government of Ireland, from the first settlement of the English, down to the establishment of its legislative independence in the year 1783. This sketch is written with remarkable clearness and spirit, and contains a very impartial account of the proceedings of the two countries. The succeeding chapter, on the political consequences of the revolution, appears to us extremely valu-After a short sketch of the constitution as it was then established, and of the precautions by which the Crown was effectually restrained from any abuse of its antient prerogative, Mr Millar proceeds to observe, that the preponderance of this branch of the legislature has now become probable a second time. from the great increase of its secret or indirect influence. This influence is derived from the valt increase of its revenue, and of the patronage which has arisen from the extension of the national dominions and establishments. The revenue, Mr Millar observes, is now divided into two branches, the one destined for fupplying the expences of government, the other for paying the interest of the national debt. The first is a direct source of influence, as long as the Crown has the appointment of the officers to whom the money is paid. The fecond also increases that influence, though less directly, in two ways: first, by the fuccessive expenditure of the fums which make up the capital of the debt: and fecondly, by the disposal of all the offices connected with the collection and distribution of the taxes for paying the interest. By the depreciation of money; and the get neral prevalence of habits of expence, Mr Millar allows that the real increase of the revenue is not altogether so great as it appears to be; but, after making a liberal deduction upon that account, he sees great reason for apprehension from the influence of a Monarch whose revenue has increased from two millions

to upwards of thirty, fince the period of the Revolution. The nature and extent of his fears, will be best estimated from his own words.

We may further remark, that the influence, arifing from the causes already specified, is apt to be the greater, as it operates upon the manners and habits of a mercantile people: a people, engrossed by lucrative trades and professions, whose great object is gain, and whose ruling principle is avariae: a people, whose distinguishing feature, as a great author observes, is justice—equally opposed to dishonesty on the one hand, and to generosity on the other; not that nice and delicate justice, the offspring of refined humanity, but that coarse, though useful virtue, the guardian of contracts and promises, whose guide is the square and the compass, and whose protector is the gallows. By a people of this description, no opportunity of earning a penny is to be lost; and whatever holds out a view of interest, without violating any municipal law, or incurring any hazard, is to be warmly embraced. Querends pecunia

primum,

From the time of the revolution, accordingly, we may trace, in some measure, a new order of things; a new principle of authority, which is worthy the attention of all who speculate upon political subjects. fore that period, the friends of liberty dreaded only the direct encroachments of the prerogative: they have fince learnt to entertain stronger apprehensions of the secret motives of interest which the Crown may hold up to individuals, and by which it may seduce them from the duty which they owe to the public. To what a height, in fact, has this in-Querice been raised in all the departments of government, and how exzensively has it pervaded all ranks and descriptions of the inhabitants! -in the army, in the church, at the bar; in the republic of letters, in finance, in mercantile and manufacturing corporations—not to mention pensioners and placemen, together with the various officers connected with the distribution of justice and the execution of the laws, the corps diplomatique, and the members of the king's confidential council. With what a powerful charm does it operate in regulating opinions, in healing grievances, in fifting clamours, in quieting the noily patriot, in extinguilhing the most furious opposition! It is the great opiate which inspires political courage, and lulls reflection; which animates the statesman to despile the resentment of the people; which drowns the memory of his former professions; and deadens, perhaps, the shame and remorfe of pulling down the edifice which he had formerly reared. Vol. IV. 94-6.

To counterbalance all these evils, Mr Millar however remarks, that the rapid improvement in arts and manufactures, that has distinguished the same period, has produced a degree of wealth and affluence, which has diffused a feeling of independence, and a high spirit of liberty through the great body the people; while the advancement of literature and sound philosophy, has effectually diffipated many political prejudices and

and errors, and introduced such principles as are more favourable to the equal rights of mankind. How far these circumstances may be able to counteract the increasing influence of the Crown, Mr Millar has not determined. The historical view of the government indeed is not carried any farther; and the remaining chapters of the work are occupied with separate differtations; explaining and illustrating the nature of that process by which the diffusion of wealth and the cultivation of licerature, have contributed to the maintenance of a free and independent spirit.

In the differtation upon commerce and manufactures, we have a very clear and concide abstract of the leading doctrines of 'the Wealth of Nations.' The improvements which have taken place in those departments, have been favourable to liberty, Mr Millar thinks, chiefly in two ways: first, by affording the means of independent subsistence, and even the prospect of unlimited opulence to every industrious individual: and secondly, by facilitating the mutual intercourse of individuals, and enabling them to consult and combine for the redress of their grievances, and

the vindication of their rights.

The effect of this increase of industry and opulence upon the character and understanding of the people at large, is opposite The subdivision of mechanical in their different circumstances. labour, has an unquestionable tendency to stupify the faculties by circumscribing the range of observation and exertion, and reducing the workman very nearly to the condition of a machine t its direct effect upon the character of the lower orders, is therefore unquestionably detrimental. But, on the other hand, the eafe and affluence which is diffused in this way through all the middling classes of the community, naturally gives them leifure and inclination for the cultivation of their faculities, and creates a great demand for all the productions of literature and the arts; at the same time, that the labourers in these higher departments, are themselves enabled, by such encouragement, to adopt a division of labour that is attended with its usual advantages. The example of the middle classes descends by degrees to the ranks immediately below them; and the general prevalence of just and liberal fentiments, which are thus foread by contagion through every order of fociety, lerves in some degree to correct the debasing influences of mechanical drudgery on the labourers. Though Mr Millar, is by no means intentible of the efficacy of this corrective, he is of opinion, that it is not sufficiently powerful to counteract the mischievous operation of the opposite arinciple 1 and extneftly recommends the adoption of every politible empedient for the infiruction and illumination of the lower orders of fociety. Thus

Thus far the subject of the differtations is strictly connected with the treatife to which they are annexed; but when, in the fucceeding chapter, we are presented with a general division of the kinds of knowledge, and of the liberal arts and fciences, and are afterwards entertained with a long speculation upon the foundations of morality, and the various modifications which it receives in the progress of society, we confess that we lose fight of the Historical View of the English government, and can no longer trace any connexion between these speculations and the political condition of this country after the fettlement on King William. Though these chapters contain nothing, perhaps, that is very original or important, they are written with great spirit and fagacity, and have the merit of stating some important truths in a very clear and striking point of view. What the author chiefly enforces is, that an opulent and commercial people are usually very deficient in the attribute of courage; that the higher orders among them become fober, but addicted to gallantry; and that justice, instead of generosity, becomes the reigning virtue of the whole nation.

In the succeeding chapter, which treats of the origin and progress of the sciences of law and government, we meet with a great number of remarks that are more judicious than original. The history of law is borrowed in a good degree from the writings of Montesquieu, Lord Kames, and Mr Smith, though compressed and connected with much of Mr Millar's peculiar talent for simplification. Of government, he observes that it is founded altogether on two principles: the one, which is in a manner instinctive and irrational, he denominates authority, and states as the primitive source of all the governments in the world: the other principle is, a perception of the utility of government, and does not, in general, emerge, till men have advanced pretty far in science and civilization. Under the appellation of authority, he comprehends all that deference and admiration that is excited by superior personal accomplishments, by riches, and by birth, which, when aided and confirmed by long continued habit, form the only foundation upon which the greater part of governments can even yet be faid to sublist. When gross abuses have been committed, however, and the faculties of men are called into action by their passions and necessities, they begin to wonder at their own blind submission to evils which they had it in their power to remove, and think of reforming their governments upon a view of their utility alone. The principle of authority, Mr Millar afferts, was the palladium st the partifans of the House of Stuart; and the principle of utility, the guide and symbol of their opponents. The latter of thefe

these principles, Mr Millar concludes, is evidently destined to take precedence of the other, as men advance in the powers of reasoning and philosophy. Even the Tories have now abandoned, at least in their arguments, the untenable ground of authority, and contend for the enlargement of the regal power, upon no other principle, than its tendency to promote the good order and ultimate happiness of the community. Though the principle will not do to argue upon, Mr Millar is far from maintaining, that it is either entirely superfeded, or without its use in the regulation of human affairs. The sentiment expressed in the following passage is extremely liberal and judicious:

'Upon the whole, it is evident that the diffusion of knowledge tends more and more to encourage and bring forward the principle of utility in all political discussions; but we must not thence conclude, that the influence of mere authority, operating without reflection, is entirely From the dispositions of mankind to pay respect and submitfion to superior personal qualities, and still more to a superiority of rank and station, together with that propensity which every one feels to continue in those modes of action to which he has long been accustomed, the great body of the people, who have commonly neither leifure nor capacity to weigh the advantages of public regulations, are prevented from indulging their unruly passions, and retained in subjection to the magistrate. The same dispositions contribute in some degree to refrain shole rash and visionary projects, which proceed from the ambition of Reactmen, or the wanton defire of innovation, and by which nations are exposed to the most dreadful calamities. Those feelings of the human mind, which give rife to authority, may be regarded as the wife providion of nature for supporting the order and government of society; and they are only to be regretted and confured, when, by exceeding their proper bounds, they no longer act in subordination to the good of mankind, but are made, as happens indeed very often, the infiruments of tyranny and oppression. ' Vol. IV. p. 309. 310.

The last discourse is upon the subject of the sine arts, and is so far connected with the preceding differentions, and the general subject of the work, that it treats of their gradual progress in the different stages of society, and of the changes which have been produced upon them by the introduction of wealth and manufactures. This essay was lest unfinished: it proposed to treat of situative composition in general, under the heads of poetry and cloquence; but the history of poetry sione is completed, and the work complutes at the point where the discussion of elections of these discussions, whether in a metrical form or not, the printingly end of which is delight or entertainment. Those the disvides, somewhat sloofely, into epic and diamatic, and endeavours, wol. III. No. 9.

in a rapid and animated narrative, to trace the history of each in its progress through a rude and an improved state of society-His representation of the epic poetry of early ages is like that of other critics. It is fublime, harsh, unconnected, extravagant, and unequal: by degrees it affumes more elegance and method; and at length, when the beauties of natural expression are exhausted, and the public ear becomes familiar with wonders, and disgusted with imitation, it sinks, through the desire of novelty, into pointed expression, and correct, but ordinary sentiments. From this stage, Mr Millar alleges, the transition is easy to prose fictions and novels, which are more easily adapted to the occurrences of modern life; and, by pretending to humbler excellences, are less apt to become ridiculous. This is the natural progress and order of things, when a nation runs its career by an internal impulse, and produces, itself, the models upon which it is continually attempting to improve. In modern Europe, however, the first steps were a little inverted: the writings of the Greeks and Romans became the subject of early imitation; and the childish taste of those ages was more eaptivated by the wild and fantastic efforts of their declining genius, than by the purer exertions of their earlier days. The gradual refinement of taste corrected this error; and the poetry of Europe grew fimple, as well as regular, before it began to die away before the passion for novelty, and the increasing fastidiousness of a more enlightened public. In reality, we are very much inclined to agree with Mr Millar, that, in the present state of society in France and England, it is much to be doubted, whether a long epic poem, however excellent in its way, would be greatly relished by the generality of the people. The judgement and reafoning taculties of men have been improved lately, perhaps in fome degree at the expence of their poetical sensibility; and, in a work of any length, we rather believe that the general talte would require fomething that came nearer the language and incidents of real life, than the metaphors, and majesty, and machinery of an epic composition. Poetry was certainly meant for amusement; and yet, among those who read for amusement, the worst of Mr Lane's novels is perused with greater avidity than the finest passages of Milton.

That part of the essay which treats of dramatic poetry, is written with uncommon spirit and facility. In tragedy, he observes, the great difficulty has always been, for the poet to forget himself, and speak uniformly in the character of his imaginary persons. This dissiculty has been greatly increased in those countries that have not adopted blank verse, by the importance assigned to correct versisication, and the consequent introduc-

tion of a new standard of excellence. Even in these countries. however, the evil has at length been felt; and the profe dramas of Mercier and Arnaud feem evidently intended to restore to the French stage the language of nature and feeling, and to reduce the mere beauties of composition to their proper subordinate sta-In Germany, where they have begun in this way, the process will probably be reversed. In discoursing of comedy,. Mr Millar attempts to adjust the long disputed boundaries of wit and humour by this obvious distinction; that humour is the talent of exhibiting contrasts and incongruities in human character and conduct; while wit is the talent of exhibiting fuch contrasts in objects that have no dependence on the behaviour of mankind. Although this description be very far from accurate, its incorrectness does not prevent Mr Millar from obferving, with perfect propriety, that the introduction of refined manners has a tendency to diminish our relish for humour, and to increase our admiration of wit. The first part of this progress is delineated by Mr Millar with so much spirit and characteristic method, that we shall beg leave to lay it before our readers in his own words:

- In Turkey, and in some other eastern countries, the contrast between a tall and short man is thought to be a reasonable cause of laughter; and a dwarf is, therefore, a necessary appendage in the retinue of princes.
- Among our forefathers in Europe, the behaviour of a mere idiot was viewed in a similar light; and a person in those unfortunate circumstances was commonly kept, by men of wealth, as an object of ridicule. When people became too polite to laugh at a real idiot, they substituted in his place an artificial one with a motley coat, and with a cap and bells, to imitate the behaviour of a simpleton, but with occasional strokes of shrewdness and sagacity. This personage afforded entertainment, by appearing, according to the proverb, more knave than sool; and became at last a professed jester, upon whom the samily in which he lived, and their guests, were accustomed to exercise their talents; but who, at the same time, like the clown of a pantomine, could shew, by his occasional sallies, that he was himself no mean performer in the scene.
- Persons of education, however, becoming gradually more expert in this kind of diversion, began to undervalue the studied jokes of these pretended fools, and endeavoured to improve the entertainment by jesting with one another, and by assuming, upon occasion, any fort of character which might contribute to the mirth of the company. The practice of masquerading, which came to be universal through a great part of Europe, arose from this prevailing disposition, and gave individuals a better opportunity of exercising their talents, by enabling them to use more freedom with each other, and to appear unexpectedly in a wariety

variety of fituations. Such was the style of amusement, which, having prevailed in that period of European manners described by Shakespeare, makes a conspicuous figure in the comic works of that author. As fashion is apt to produce fantastical imitation, it appears that the folly of individuals led them, in those times, to assume or counterfeit those humours in real life; an affectation which had become so general, as to stall under the notice of the stage, and to produce a ridicule of the cheating humour, the bragging humour, the melancholy humour, the quarrelling humour—exhibited by Shakespeare and Johnson, in the characters of Nym, of Pistol, of Master Stephen, or Master Matthew, and the Angry Boy.

The higher advances of civilization and refinement, contributed not only to explode those ludicrous pastimes which had been the delight of a former age, but even to weaken the propenfity to every species of humorous exhibition. Although humour be commonly productive of more merriment than wit, it seldom procures to the possessor the same degree of respect. To shew in a strong light the follies, the desects, and the improprieties of mankind, they must be exhibited with peculiar To excite strong ridicule, the picture must be changed; and the features, though like, must be exaggerated. The man who, in conversation, aims at the display of this talent, must endeavour to represent, with peculiar heightening, the tone, the aspect, the gesture, the deportment of the person whom he ridicules. To paint folly, he must for the time appear foolish. To exhibit oddity and absurdity, he must himself become odd and absurd. There is, in this attempt, something low and buffoonish: and a degree of that meanness, which appeared in the person thus exposed, is likely, by a natural association, to remain with his representative. The latter is beheld in the light of a player, who degrades himself for our entertainment, and whom nothing but the highest excellence in his profession can save from our contempt. Vol. 1V. p. 354-358.

The great exuberance of humour in the productions of English writers, Mr Millar thinks, is to be ascribed principally to the great variety of professions and occupations which exist in this country among persons that are admitted into the same circles of society. Our humour, however, he is of opinion, is declining with the general improvement of our manners; and he is assaid that our serious application to business and politics will prevent us from compensating that loss by a proportionate improvement in wit.

Such is the substance of the volumes that are to carry down to posterity the reputation of a man, from whose conversation no one exper retired without information and delight, and in whom the faculties of just reasoning and animated discussion seemed at all times unimpaired and alert. The publication, we have already noticed, is scarcely equal to our expectations; but it has merits which

will always be unattainable by ordinary minds: it takes a firm grasp of the subject, and conducts the investigation with a degree of perspicuity that is never overshaded, and a sagacity that is but rarely deceived. In the political part, all the fentiments that are liable to be disputed, are delivered openly, firmly, and calmly; and those who do not agree with the author, can neither complain of equivocation, nor plead his example for being angry. When we confider that the substance of this work was originally delivered by Mr Millar in a feries of academical lectures, we shall easily be able to account for another peculiarity in its character. Every thing is delivered with studied perspicuity, and a fort of elementary simplicity. The general truth and theory is clearly and boldly afferted; and the difficulties and detail of the subject are sometimes passed over very slightly. To those who are already proficients in the study, this may not be altogether fatisfactory; but, by the general reader, it will be felt as a great relief: and there are few indeed, even among those who have entered profoundly into the subject, who will not feel their knowledge rendered more manageable, and their conceptions more luminous, by the perusal of Mr Millar's speculations.

ART. XIV. Athenei Naucratite Deipnosophislarum libri quindecim: 22 optimis codicibus nunc primum collutis inendavit ac supplevit, nova Latina versione et animadversionibus cum Is. Casauboni altorumque tum suis illustravit, commodisque indicibus instruxit Johannes Schweighauser Argentoratensis, Instituti Scientiar. et Art. populi Gallo-franc. socius, Antiquar. Literar. in Schola Argent Pros. Argentorati ex Typographia Societatis Bipontina. Anno ix. (1801.)

THERE are few compilations from which the moderns have derived to much of their knowledge of the private life of the ancient Greeks, as from the Deipnosophists of Athenæus. It may not be superfluous to inform some of our readers, that the professed object of the writer was to detail to his contemporaries the convivial antiquities of their ancestors, and that he has chosen to convey his information in the form of a dialogue, as the most convenient and amusing. The fable, or plan of the work, is as follows: A confiderable number of learned men, among whom we find the celebrated Galen, affemble at the table of Larensius, a liberal and wealthy Roman, where they bestow as large a portion of erudition on every part of their entertainment, as the memory or common-place book of the author could supply. So much of the business of human life is connected, mediately or immediately, with eating and drinking, that it does not

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not require any great share of ingenuity to introduce into a work of so miscellaneous a nature, much useful and curious information, which, at first fight, does not appear to be very closely connected with the science of cookery. 'Accordingly,' says the author of the Epitome, we find disquisitions on fish of every fort; together with pot-herbs and poultry; not to mention hillorians, poets and philosophers; likewise a great variety of musical instruments, witty fayings and drinking vessels; royal magnishcence, thips of prodigious magnitude, and many other articles, too tedious to mention? Although this kind of conversation bears no very strong resemblance to the dying speculations of Socrates on the immortality of the foul, our author has selected the Phædo of Plato for his prototype, and has borrowed the beginning of that dialogue, with no alteration, except the fubilitution of the names of Timocrates and Athenaus to those of Echecrates and Phædo. A strong objection to the dramatic form which the work affumes, arises from the impossibility of collecting the productions of all the different feafous at one banquet. The author feems to suppose that an astonished fishmonger might exclaim, in the words of Theocritus, 'Anna ra uis D'asos, Tà de vignetai in xeipani. The loss of the two first books renders us unable to judge how far he was able to palliate this palpable absurdity. The most valuable part of the work is the large quantity of quotations which it presents from authors whose writings no longer exist. The Athenian comic poets assorded an ample store of materials, and Athenieus seems to have been by no means sparing in the use of them. Many of the extracts from their works, which he has inferted in his own, are highly interesting; and the mass is so considerable, as far to exceed in bulk all that can be collected from every other Greek or Latin. writer. The number of theatrical pieces, which he appears to have consulted, was probably not less than two thousand. middle comedy alone furnished him with eight hundred.

Of the author of this work, which has derived fo great a portion of additional value from the general wreck which has deprived up of the treasures of the ancients, nothing is known, except a few particulars which he has inserted cursorily in his work. He was a native of Naucratis, a city of Egypt, to which, in the time of its original kings, the approach of foreigners was restricted in the same manner as to Nangasaki in the modern empire of Japan. He declares himself to have been a little posterior to the poet Oppian; and, as that writer dedicates his Halicular to the emperor Caracalla, the age of Athenaus may be fixed at the beginning of the third century of the Christrian area. His compilation immediately became the prey of other compil-

ers, less diligent than himself. Ælian, who was nearly his contemporary, has made use very liberally of the Deipnosophists in his Various History. In a later age we again find our author pillaged by Macrobius, who seems to have taken from him not only many of the materials, but even the form and idea of his Saturnalia. But of all writers, ancient or modern, there is none who is so highly indebted to Athenaus as the industrious Eustathius. Although the Archbishop of Thessalonica appears never to have seen the entire work, but to have made use of the Epitome, the stores of his erudition would be miserably reduced, if he were compelled to make restitution of the property of our author which he has converted to his own benefit.

By the same fortunate accident which has preserved a few of the writings of the ancients *, a fingle copy of Athenaus appears to have escaped from the ravages of time, ignorance, and fanaticism. That copy still exists. After the death of Cardinal Bessarion, who probably brought it from Greece, it passed into the Library of Saint Mark at Venice. In this sepulchre of books it would certainly have continued for many ages, unknown to the learned, if the late revolutions, which have changed the face of Europe, had not caused it to be included in the valuable spoils of Italy which now enrich the national collections at Paris. confifts of three hundred and feventy-three leaves of the largest dimensions. Each page is divided into two columns. It is written without contractions, and from the form of the characters, may be attributed to the tenth century. The fubjunctive vowel of the diphthongs a, n, and a, is never subscribed, but commonly placed after its prepositive, in the ancient manner. The whole orthography is very incorrect, particularly in the division of the words, and the punctuation.

Many transcripts of this manuscript exist in disserent parts of Europe, which were probably made while it was in the possession of Cardinal Bessarion. All of them betray their origin, as, besides their coincidence in orthographical errors, the same parts M 4

^{*}Among the good qualities of his host Larensius, Athenæus enumerates his diligence in collecting and preserving the works of ancient authors, which, through the applacation, the want of taste, of the multitude, were almost configured to oblivion. The art of printing has lessened, but certainly has not removed the danger to which authors are exposed. Perhaps, a hundred years hence, a complete copy of the works of Blackmore may be sought for in vain. We recommend to modern Larensii the redemption of these and other similar productions from tapers and defrauded pyes. We tremble for the suture sate of many of the most celebrated of our contemporaries.

are wanting in all of them. The two first books, the beginning of the third, a few leaves in the eleventh, and part of two leaves in the fisteenth, are wanting in the Venetian manuscript, and the deficiency appears evidently to have proceeded from accident. The same lacune occur in every other manuscript, but are exhibited in a manner which shews the cause to have existed in the copy from which they were transcribed. It is unnecessary to say that the errors of the Venetian manuscript are in general faithfully retained, and the number of them considerably augmented.

Fortunately for Athenæus, the integrity of his work is in fome measure preserved by an Epitome of the whole, which has been transmitted to us without defalcation. This abridgement, if it may be called so, is nearly as bulky as the original work. The age of it is uncertain. It is executed in a careless manner; and the copy which the writer had before his eyes, appears to have suffered so much from time or accident, that he frequently breaks off in the middle of an extract, and declares his inability to decypher the remainder. From these soure editions are derived; and it will easily be seen that where the original copies are so few and so faulty, conjectural emendation will find ample scope to display its powers. The fact is, that although the game has been considerably thinned by Casaubon and some other sagacious critics, there still remain sufficient materials to exercise the industry of the keenest grammatical sportsman.

The editions of Athenaus are three, or rather five, in number. The first was printed at Venice by Aldus, in the year 1514. Musurus, who was the editor, was obliged to make use of a very faulty manuscript, and to supply the deficiencies of the original from the Epitome; a practice which has been imitated in all the fucceeding editions. The lacuna in the eleventh book, however, was not perceived; and the corresponding portion of the Epitome did not appear until the publication of Cafaubon's commentary. Twenty-one years afterwards, a new edition was published at Basil, which, in most of the passages in which it differs from that of Aldus, recedes still further from the purity of the original. In this edition the passages of Aristotle and Theophrastus, which are adduced by Athenæus, are professedly altered to the readings of the then existing copies, by which means many important various lections in the writings of these two philosopheri are completely obliterated. Neither of these editions is accompanied with a translation, or with notes. third edition is that of Isaac Casaubon, of which there are three erent impressions, in the years 1597, 1612 and 1664, which o not differ confiderably from each other. To these editions is annexed the Latin translation of James Dakchamp of Caen, which which was first printed by itself in the year 1583. The Greek text is much more perfect and accurate than in the preceding editions; as in the long interval which elapsed between that of Basil, and the first of Casaubon's, many new manuscripts had been discovered, and much labour had been bestowed on Atheneus by some of the most celebrated scholars of that age. There exists an edition of the epitome of the first book by Tumebus, of a prior date to that of Casaubon, in which the editor has indulged great license of conjectural emendation. It seems to have been meant as a specimen of an entire edition; but from the boldness and clumfiness of the alterations, we do not think

that it is to be regretted that the defign was laid afide.

The most valuable part of the edition of Casaubon is his celebrated commentary, which constitutes a folio of no inconsiderable magnitude. The work is dedicated, with much propriety, to Henry the Fourth, between whose character, and that of Athenæus, the author discovers a retemblance which, to common eyes, is certainly not very apparent. The work itself is so well known to scholars, that it would be superfluous to enlarge upon We must only observe, that many of the emendations which are proposed by Casaubon are violent and improbable, and that a still greater number may be considered as obvious to any person who is endowed with a moderate share of critical sagacity. Notwithstanding these defects, we know no work of this kind, except perhaps Bentley's differtation on Phalaris, in which the reader is presented with such a mass of pertinent information. Unlike many commentaries, the text of the author is almost always kept in fight; and the erudition of the critic, although ample, is displayed without oftentation.

Two hundred years have elapfed between the publication of this edition, and the present performance of Professor Schweighauser. From our previous knowledge of his labours as an editor, we certainly should not have conceived Athenaeus to be the author most likely to be benesited by his exertions. The editor of an historian, and still more of a moralist, has a much easier and more simple task to perform, than must be undertaken by him who labours in the elucidation of an author of so miscellaneous a nature as Athenaeus. We cannot avoid wishing that the editor of Appian, Polybius, and Epictetus, had continued in his original course, and had left the Deipnosophists to some person more accurately acquainted with the minutiae of Greek literature. It is however far from our intention to speak with disrespect of Prosessor.

didly admits the deficiencies of which we complain.

The greatest advantage which he has enjoyed, is the collation of the Venetian manuscript, which, as we have already observed,

ed, is now deposited in the grand repository for all the stolen goods in Europe. An accurate collation of this venerable original, almost entirely supersedes the necessity of examining other copies. All readings which are found only in the latter, are to be considered either as mistakes, or as conjectural emen-We could have wished that the dations of the transcriber. Professor had seen this manuscript with his own eyes. think that no person ought to undertake an edition, the merit of which depends greatly on the accurate examination of a fingle manuscript, unless he has an opportunity of inspecting it in person. We have no particular reason to think lowly of the abilities of young Mr Schweighæuser, the actual collater; yet we think that the Professor himself would have had no cause for repentance, if he had spent one of his vacations in the national library at Paris. Besides the Venetian manuscript. he had the use of a valuable copy of the Epitome, from which confiderable advantage has accrued both to those parts of the work which exist only in the abridged form, and to those which have been transmitted to us entire.

It would ill become us, who inhabit this metropolis of false quantities, to censure with asperity a Professor of the University of Strasburg, for a fault which is imputed to ourselves by our fellow-citizens of the south. Were it not for this consideration, we should be tempted to inveigh with severity against some of the Iambic verses with which the Professor has presented us, particularly as many of them appear to us to have no other faults than those which are produced by his alterations. We shall exhibit specimens, before we conclude the present article.

We have now before us only two volumes of the text, containing fix books, and two of the commentary, containing four. If the edition be continued on the same scale, it will extend to thirteen volumes; and, as the price is by no means low in this country, many readers will be precluded from the use of it. The great price of Greek books we confider as one of the most serios blacles to the cultivation of that department of litera-In the prefent case, the expence might have been diminished by omitting the Latin version. Few persons are tempted to read Athenæus, except those who do not require a translation. The commentary might also have been compressed considerably, without any injury to the work. As the animadversions of Cafaubon are not republished entire, the present edition does not preclude the use of the former. These, however, are petty obections. The principal point which we are to examine, is the degree of purity to which, by the affistance of manuscripts, the ionjectures of other critics, and the fagacity of the present edi-

P. 39.

tor, the text of Athenæus has been restored. We shall exhibit to our readers some of the principal novelties which appear in the six sirst books. In most places where the editor has deviated from the text of the former editions, he has judiciously placed the common reading under the text. We lament that he has not faithfully observed this rule in every alteration. By these means, the comparison of this edition with the former would be rendered extremely easy. We cite the numerals of the common-editions, which are retained in the inner margin of the present.

P. 3. D. Antiphanes:

ό θυρωρός ίλωρός πρώτον έςιν, η κύων έσηνε κωι προσήλθεν, * ὑπήντησέ τις, διΦρον εὐθέως έθηκε.

In the second verse, which wants a syllable, Professor Schweighauser reads branchous de tie.

P. 5. B. Plato the Comic Poet: * * * * iyai d' irbad' ir Thenpuis.

The Professor, who is by no means afraid of a biatus, proposes

* * * Eya d' ev th de th Ephula.

P. 6. C. Tithonus is faid to be suspended is θαλάμω, in a bed-chamber. Professor S. reads is ταλάξω, in a wicker crudle.

P. 11. D Æschylus:

καὶ ταξιάρχας, καὶ στρατάρχας, καὶ έκατοντάρχας έταξα.

Palamides, whose words these are, could hardly boast that he invented the office of a commander in chief, although he might settle the economy of the inferior leaders. Professor S. reads

καὶ ταξιάςχας, χάκατοντάςχας στςατῷ ἐταξα.

P. 23. A. Antiphanes:

τὰ δ' ἀντιτεινοντ' οιονεί διψαν τινὰ η ξηραξίαν έχοντ' αὐτόπρεμν' ἀπόλλυται.

Professor S. proposes oxion for sxor in the second verse: but he is not aware that the second syllable of Engaging, which is derived from Engaging, is long. The true reading is

- - - - - difar Tir', n

ξηςασιαν έχοντ', απόπρεμν' απόλλυται.

P. 35. D. Diphilus:

τόν τ' ασθενή τολμαν τι, τον δαιλον θεασύν.

Professor S. proposes bearin. Ougour and buchur are common; but we do not at present recollect an instance of bearin,

P. 36. F. Alexis:

ό μεν γάρ ἀπογηράσκων ἀπδής γίγνεται.

As this verse contains a syllable too much, Professor S. changes the order of the words, and places vie before and s. The true reading is the participle of the agrist arraymeds, which, being rather uncommon, was altered by the transcriber.

road :

P. 39. Amphis: τὸ νέκτας πάνυ μέττων ἐσθίω, διαπίνω τ' ἀμβεσσίαν, καὶ τῷ Διί, &cc. Professor S. reduces these words to metre in the following manner:

- - - - τὸ νίκτας ἐσθίω, πάνυ
μάττων, διαπίνω τ' ἀμβροσίαν, καὶ τῷ Διὶ, &c.

We would prefer the omilion of the article before νίκτας, and would

---- xávu káttus šobía síxtae, diaxiva t' àußeodias, &c.

P. 40. E. Alexis:

τους εύτυχουντας επιφανώς δεί ζην [αεί]
Φανεράν τε την δόσιν την του θεού ποίειν.
ό γας δεδωκώς τάγαθα, [τούτους] των μέν, ών
πεποιηκεν, [αὐτοὺς] οἴεται χάριν τινὰ
εχειν εαυτώ.

The words in brackets were added by Cafaubon to fill up the metre. We believe that the paffage has already been corrected as follows:

- - - - τοὺς εὐτυχοῦντας ἐπιφαιῶς δεῖ ζῆν, φανεράν το την δόσιν την τοῦ θεοῦ πριεῖν. * * ὁ γὰς διδακὰς τάγαθὰ, ὧν μὲν πεποίεκεν οἶσται χάριν τινὰ, &C.

By this arrangement we avoid the interpolations as well as the fpondee in the fourth foot of the fecond verse. Although it is not our intention to propose emendations in Athenaus, except in passages where Professor S. has preceded us, we must suggest the substitution of exagiorous or exagiorous for exagiorous in the concluding part of this fragment.

P. 48. A. As a specimen of the ingenious manner in which Prosession S. distributes those verses which are commonly written as prose, we will insert a fragment of Menander, from the Protestrussis ex Lubro secundo, which probably belongs to this place. The Prosessor remarks, Versus utcunque, pro meo sensu, distribui. We denote his distribution by obelisks:

έργο [ίστιν] εἰς τρίπλινοι † συχγανιάς εἰσπεσίν.

† οὖ λαβών τὴν κυλικα † πρώτος ἀρχεται λόγου † πατής.

† εἶτα τήθη παραλαλεῖ τις. † εἶτα μήτης δευτέρα.

† εἶτα τήθη παραλαλεῖ τις. † εἶτα μήτης δευτέρα.

ἐργο [ίστιν] εἰς τρίπλινοι † συχγανιάς εἰσπεσίν.

P. 49. E. Alexis:

καὶ μὴν ἐν ὕπνω οἴομαι ὡρακίναι νικητήριον. λέγ αὐτό. τὸν νοῦν πρόσεχε δή.

Professor S. proposes unitger. We would read;

και τόν το του στιον οδομαι νικητικόν, Ερρακέναι. λέγ αυτό, &c.

where that in fome places Professor S. has restored the true orthoby idease. In the passage which immediately follows that which he have just cited, the same alteration is to be made:

> * * ideanas mamor idusvasusiav Bruorgor, il omdiji imride arbudsvuhisor;

1803. Profesor Schweighaufer's Edition of Atheneus.

P. 55. A. Alexis:

πύαμος, θίρμος, λάχανον, γογγυλίς, ὧχρος, λάθυρος, Φηγός, βολβός, τέττιζ, ἑρέβινθος, άχράς. &c.

Anapæstic verses composed of three seet, like the last of these, are not infrequent in the present edition. This passage affords an instance of the corruption of the text by the casual rion of a marginal gloss. Ougues is hot, and biques is a hipine. Adxaves is nerefore an explanation of signes, and ought to be expunged; after which the verses will stand as a flows:

Κυαμος, θέρμος, γογγυλίς, ώχρος, λάθυρος, Φηγός, βολβός, τέττιξ,

ερέβινθος, άχράς, &c.

P. 59. E. Epicrates:

και τί ποτ` αξ' ωξίταντο, καὶ τίνος γένους είναι τὸ Φύτον δήλωσον, εὶ κατοϊσθά τι.

To these two Iambic verses, the Professor has substituted three Anaparties de su sagon, which we recommend to the reader's attention, as a curious specimen of emendatory criticism:

και τί πετ' ἀρ' ἐορίσαντο, και τίνος είναι γένεος τὸ Φυτον; δηλωσόν γ', εί τι κατοϊσθα.

P. 66. D. Antiphanes:

νῦν δεῖ περιόντα πέπερι καὶ καρπὸν βλίτου ζῆτείν.

Πιειών in the Attic dialect stands for περιών. One instance occurs in a passage of Phrynichus, which we shall cite hereaster. The Professor reads περιώντα, and removes νῦν to the preceding verse.

P. 66. D. Ophelion:

Λιβυκόν τε πέπεςι, θυμίαμα, και βίβλιον

Πλάτωνος έμβρόντητον.

The Professor reads $\beta_i\beta_{\lambda\delta r}$, which we presume to be a found . We preser the omission of zei. With the exception of γ_i , hardly zey word is so frequently interpolated as zei.

P. 87. F. Posidippus:

ώρα περαίνων εγχέλια, και καράβους,

πόγχας, έχύους προσφάτους, μπαίνια.

The true reading is unquestionably έγχέλοια, παράβους: πρία being understood.

P. 103. A. Damoxenus:

εἶτ' οὐθὲν εἰκῆ παρατιθήμι, μανθάνεις;

This verse exhibits a singular instance of interpolation. In all the editions, except that of Aldus, we read:

είτ' οὐθὲν εἰκῆ παρατίθεμαι τοῖς συμπόταις.

In which, befides the impropriety of magazif was, which figurifies I fit before my felf, we have a dactyl immediately before an anapæst.

P. 105. A. Epicharmus:

ivri d' acranol, πολύβδαιναί τ', έχρισαι τα πίδια μιπρά, τας χείρας δε μαπράς, πάραβος δε τώνυμας. The πολύβδαινα appears to have been of a species entirely different from the πάραβος, which was of the lobiter kind. Instead of the words ἔχοισαι τὰ πόδια, the Venetian manuscript reads ἐχοισαι ποδι ἐχει. By changing the division of the words, and introducing the proper contraction of καὶ ος, we find the true reading of this passage:

εντί δ' ἀστακοί, κολύβδαιναί τι, χώς τα πόδι έχει

μικεά, &c.

P. 107. C. Alexis:

πειάδια, ποδάεια, ρύγχη τινά, ἀτάεια,

ύωον ήπετιον έγχεκαλυμμένον.

The first of these distorted verses is left untouched by our Professor; but he endeavours to correct the second by reading ἐπικεκαλυμμενόν. Both of them should be altered in the following manner:

κειάδια, και ποδάεια, και ίνηχη τινά, ώταει ύει, ηπάτιον θηκεκαλυμμένου.

The verse which immediately follows is also infested by a falle quantity:

αίσχύνεται γας, πελιδνόν ον, τῷ χρωματι.

We believe that the syllable is of necessity made long before ΔN ; for which reason we should prefer proxime, which suits the sense equally well. We observe a small error in the beginning of this fragment, which Professor S. has passed over unnoticed. The common reading is:

πρώτον μέν όστηκα παρά Νηρεί τινι ίδων γεροντι Φυκιοισιν ημφιεσμένη, &C.

Correct:

πρώτον μεν οὖν ὄστρεια παρά Νηρεί τινι ίδων γεροντι Φύπι' [ΟΥ Φῦκος] ημφιεσιώνω, &C.

P. 107. E. Alexis:

αίσχυνόμενον ήπας καὶ καπείσκους καταφαγοῦ.

Correct:

αίσχυνόμενον ήπας καπείσκου σκατοφάγου.

P. 117. F. Alexis:

άς' ην μετά ταῦθ' η ςάρανος, ην εβοᾶτ' είναι---

χρηστή γάρ ήν έδωκα ταύτης δύ όβολους.

Thus Professor S. chuses to read, with a spondee in the last foot of the first verse; a practice which, from its frequency in the present edition, we conceive to be much more allowable at Strasburg, than on the Attic stage. Such of our readers as are scrupulous in admitting this license, mattering the strasburg.

A. ἀρ' ἢν μετὰ ταῦθ' ἡ ῥάφανος, ἢν ἐβοᾶτε. B. ναί

χρηστη γως ην. Α. εδωκα, &c.

'Η ράφανος τν εβοαντ is the cabbage which you praifed. In the fame fragment the Professor begins an Iambic verse with ως πυρετος άνηκεν. We could produce many instances to prove that Professor & does not coincide in opinion with those critics who conceive a Dactyl or a Tritrach to be inadmissible before an Anapæst.

P. 119. F. Menander:

देनां मकर देमां το τάριχος (άλας), αν ούτω σύχη.

The Professor informs us that he has included the word was within brackets, because he conceives that it has intruded itself into its present feat from the conclusion of the preceding verse. We should prefer

- - - - - Èπίπασα έπὶ τὸ τάριχος άλας, ἐὰν ούτω τύχη.

P. 124. C. Strattis:

- - - - - - - oi vor yae misiv ουδ' αν είζ δέξαιτο θερμον, άλλα πολύ τουναντίον, ψυχόμενον έν τῶ Φείατι, χιόνι συμμεμιγμένον.

The Profesfor has converted these Trochaic verses into Iambic, with no other alteration than the permutation of the second and third words. The common reading of the third verse is μεμιγμένου. He scans the whole verse in the following manner:

-00 0- -0- 000 00- 0-

P. 131 A. Amphis:

καν ταυτα ποιής, ώσπες Φεάζω, λαμπροίς δείπτοις δέξεθ' [read δεξόμεθ'] υμᾶς,

evoler openes rois (Pixparous Tois in Ocann. nai Toi Davin

βύβακας αυτά γενέδαι.

Instead of this word Busaco, which Professor S. has inserted from the Venetian manuscript, some copies have βυβακάλους, and the editions read φιλοκάλως. We do not pretend to interpret it. In the following lines, Professor S. introduces & without citing any authority for the use of it. The Venetian manuscript reads of our, instead of our, in thefe verfes:

δειπνείν δ' άνδρας βούτυρον Φάσ', αύχμη εοπομας, μυριοπληθείς.

The true reading is probably Boutueopayous. In the fame fragment we read:

> πίνναι, λεπάδες, μύες, όσεεα, RTÉVES, ÖCKUVES, &CC.

Professor S. endeavours to restore the metre by reading with t, borgen; in which three words there are five faults. In the first place, the first fyllable of uis is short: secondly, an Attic comic poet would write mus, in the contracted form: thirdly, the conjunctive particle is improper in this place: fourthly, the last fyllable of borgen is long by position, as coming before xxivis: fifthly, the Attic writers generally, if not always, write dorgena. All these errors may be avoided by reading μῦς, ὄστραα.

P. 161. A. Antiphanes:

των Πυθαγορικών δ' ένετυχον άθλιοι τινές, &C. This elegant lambic is the production of Professor S. The common reading is di TUZO. We presume that the whole verse should appear as follows:

τῶν Πυθαγοςιστῶν δ ἔτυχον ἄθλιοι τινές, &c.

P. 165. B. Phrynichus:

έςιν δ' αὐτούς γε Φυλάττιο αι τον νύν χαλιπώτατον έργον. Exeues who to merteer to this dantuhois medatemen andes ubis. डाँ हैं महैपरे क्रिक्ट के संसदान क्षा, स्वर्थ क्षेत्र स्वर्थ क्रिक्ट क्रिक्ट क्रिक्ट क्रिक्ट દેજો τοίσι βάθχοις ότ' αν ώσιν દેખાં τούτοις એ ς મેθυλογούσι, μεγάλας αμυχάς καταμύξαντες, και συγκεύψαντες άπαντες, γελῶσι.

We give these tetrameter Anapæstics as they are written in the Venetian manuscript, without pretending to correct them. Professor S. has arranged them in another manner, with some interpolations. In his disposition, not one of them, except the first, can be scanned.

P. 166. C. Axionicus:

- - - - - - o Musionhos outos [read outori] ίσοβαλλίον προσέρχετ' ἐπικαλουμενος,

å σωτότατος. - - - -

μεθύουσά τ' έξ όπιθεν ή σοφωτάτη

άποτυμπανισχάς κατά πίδας πορεύεται.

In these corrupt lines, we conceive avarirures to be a gloss on ice 3al-Professor S. reads arutistates, which is certainly wrong. For αποτυμπανισχάς he substitutes από τυμπάνου 'Ισχάς, conceiving the biatus to be as legitimate in Iambic as in Hexameter verles.

P. 224. D. Amphis:

λαβείν τ' κποκρισιν αν έπερωτά τις, η

Teds tous, &c.

As the first of these verses wants a syllable, Professor S. inferts reafter We believe that a much neater correction has been offered:

λαβείν τ' ἀπόκ, ισιν ών αν έπερωτα, &cc.

P. 226. A. Alexis:

ού γέγοτε κρείττων νομοθέτης του πλουσίου Agisorizou tilnoi yag ruri ropor. των ίχθυοπωλών όρις αν πωλών γε τόν ίχθυν υποτιμήσας, αποδωτ ελάττονος र्णेंड धाँ ऋद राष्ट्रधाँड, &c.

We presume that it is sufficiently evident that we may read : viv ribnot yes roper. Professor S. reads riberas, which has a different meaning. Word vous means to make a law by one's own authority: Bilines vous is to propose the making of a law in the legislative assembly. It is in this latter tense only, that Aristonicus, who was probably some demagague of that age, could be called a lawgiver. Perhaps, however, the whole passage is to be differently arranged:

> OU NEYOUS RESITTED TOMOSTING TOU TAPUTION Aciforizov. * * * Tibnoc yde אום ושלאים של אול של וצים ושור ליון וביון האולים שווים אולים שווים של אולים של אול ixIv inoriuhous, &c.

The ve in the third line is wanting in the manuscripts, and perhaps the words which we have omitted were added to supply the deficiency wich we have indicated by afteriffes.

P. 243. D. The following Trochaics of Anaxandrides have been converted by Grotius, not without confiderable omiffions and alterations, into what that eminent man possibly conceived to be lambics. Professor S. has faithfully retained the arrangement of his predecessor. We give them entire, because the Venetian manuscript exhibits them with some various readings of consequence. We do not pretend to understand all the local wit which is contained in them :

εκν δι κειον Φείζος και δι καδάριον, Ιωσων.

P. 247. C. Diphilus:

itor.

---- - - - - OUR AT TATE

Evernions youaira vassi. oix offic, &c. In the common editions, vassi being written without the apostrophus, is mistaken by Professor S. for the suture. He reads vasses, without informing us in what manner the verse is to be divided into feet.

P. 258. C. Alexis:

΄ ίσως τριάκοντ' ἀΦ' ένδς έργαστηρίου.

Professor S., who does not suspect that the second syllable of research is long, proposes the introduction of vs after 1945.

P. 269. F. Metagenes:

ό μὲν ποταμὸς ὁ κεᾶθις ἡμῖν καταθέρει μάζας μεγίστας αὐτομάτας μεμαγμίνὰς· ὸ δ' ἔτεζός γε, ὁ Σύβαρις καλούμενος

ποταμός, ἐθεῖ κῦμα γαστῶν καὶ κριῶν, &c.
The Professor observes that the two latter verses of this ρῆσις are corrupted, but he does not attempt to emend them. Probably several of the words are a gloss, and the whole is to be read in one verse:

ં છે દેરક્ટુલ્ડ એમાં શ્રેણાન પ્લાગ્મણ પ્રવા ક્રાફાર્થેંગ.

In the fame fragment we observe just at the end of a verse, and rention, intais at the beginning of the next. Correct just revolution in one line.

In the curfory survey which we have taken of Professor. Schweighæuser's emendations, we have feldom endeavoured to refute them, except when a preserable reading suggested itself to us. We have observed, with a considerable degree of surprise, a very large number of passages, which had been restored by the sagacity of different critics, but which, in this edition, remain in the same state in which they were less by Casabon.

YOL. III. NO. 5.

We have to lament that Professor Schweighauser has not devoted a larger share of his attention to that kind of criticism, from which alone a correct edition of Athenaus can be expected. Unquestionably the present publication is valuable in some respects: the epitome of the two first books, in particular, will be found considerably more entire than in the former editions. The collation of the Venetian manuscript has disappointed us. We expected that the editor would have derived much more advantage from it than he appears to have done. Much depends on the sidelity of the collation, of which it is impossible for us to judge. We hope that a future editor will consider the further inspection of it as unnecessary.

On Professor Schweig næuser's commentary, we have little to remark. By far the larger portion of it consists of extracts from Casaubon, whose animadversions, as we have before observed, ought to have been republished entire. Professor Schweighæuser has made no inconsiderable addition to the mass of information. The least commendable part of the work is the critical observations. The Professor's ignorance of metre, continually exposes him to mistakes of the most ridiculous kind. We recollect, in one place, a differtation on the quantity of the latter systable of the particle with The Professor, after mature deliberation, determines it to be long, but is half inclined to believe that the Attic poets occasionally transgress the rule, and make it short!

The Professor promises very copious and correct indexes. In that respect, at least, we hope that he will assume, as he may very easily, a decided superiority over the preceding editors.

ART. XV. An Account of the late Improvements in Galvanism, with a Series of Euriour and Interesting Experiments, performed before the Commissioners of the French National Institute, and repeated lately in the Anatomical Theatres of London. By John Aldini, Professor of Experimental Philosophy in the University of Bologna, &c. &c. 410. pp. 2224 London. Cuthell & Martin. 1803.

In general, every new light thrown upon natural knowledge, at first dazzles and confuses: the understanding slowly becomes accustomed to its brightness; and it is only by degrees that the just appearances of the objects of discovery are perceived, and their true relations ascertained. The researches lately made in Gattanic electricity, have afforded to the scientific world many that and interesting results; but the truths that have yet been discovered.

discovered by means of them, are few, and, for the most part, insulated. We have already witnessed several attempts to account for the phanomena, and to extend their theoretical applications to physiology and chemistry; but they have appeared to us, for the most part, founded on unsatisfactory suppositions: And the pages we are now examining, afford many new proofs of the vanity of systematizing upon an imperfect series of experiments.

The 'account of the late improvements in Galvanism,' is divided into three parts. The first part is entitled, 'On the Nature and general Properties of Galvanism:' the second relates to the influence of Galvanism on the vital powers: and the third to its medical application. No portion of the work is devoted to historical details concerning the origin and progress of the science; and little notice is taken of the most important discoveries that have been made by means of the electrical pile. M. Aldini, in-

deed, treats chiefly of his own experiments and opinions.

The celebrated Galvani, who is the author's uncle, in establishing his important discovery, had observed, that muscular contractions were produced, in certain cases, in the limbs of frogs that had been apparently deprived of life, without the aid of metals, merely by bringing certain parts of the animal in contact. His processes were repeated, under new circumstances, by Volta and by Humboldt *: And one of the most simple methods of exhibiting the fact, was found to be the application of the sciatic nerve to the muscles of the leg. M. Aldini has filled the first part of his work with the description of different conditions of this experiment. He has increased the effect, by connecting the nerve and muscle with the parts of warm-blooded animals; and by moistening them with saline solutions. And he infers from the phænomenon, that a peculiar ethereal fluid is continually generated in the animal economy; that it is connected with the functions of life; and that, as there is a metallic pile, composed of metals and fluids, so there is likewise an animal pile, consisting of living animal fubstances.

Whilit we admit, that the production of muscular contractions, by the combinations of animal organs, to all appearance dead, is a very curious circumstance, we cannot allow that it affords any proof of the presence of a peculiar electricity in living bodies, or that it tends, in the slightest degree, 'to explain the sensations and contractions in the animal machine.' It appears capable of being referred to the general law of the production of electricity, by the agency of conducting bodies on each other; and it may be explained, either by the ingenious hypothesis of Volta concerning

* See Humboldt fur le Galvanisme, pag. 30.

electro-motion, or by the theory of the dependence of Galvanic

electricity on chemical changes.

M. Aldini, however, is so perfectly satisfied as to the existence of the ethereal animal sluid, that he employs several propositions in attempting to demonstrate its relations to common electricity, and the electricity produced by metals. His reasonings on this subject appear to us to be very inconclusive indeed; and we are assaid that he has been mistaken in the results of some of his experiments: As, for instance, when he says, page 21, 'that an electrified Leyden phial, introduced under a jar silled with common air in a pneumatic apparatus, occasions a diminution of the elastic sluid;' and when he afferts, page 41, 'that opium, cinchona, and other stimulants of a similar kind, which exercise a powerful action on the animal machine, contribute also to excite the action of the pile.'

M. Aldini begins the second part of his work in the following

manner:

To conduct an energetic fluid to the general feat of all impressions; to distribute its influence to the different parts of the nervous and muscular systems; to continue, revive, and, if I may be allowed the expression, to command the vital powers; such are the objects of my refearches, and such the advantages which I purpose to derive from the action of Galvanism.

The discovery of the Galvanic pile by the celebrated Volta, has ferved as a guide to enable me to obtain the most interesting results; and to these I have been conducted by numerous researches and a long series of experiments. I have examined the whole range of nature; and the grand samily of animals has afforded me the means of making observations, highly interesting to physiology, on the whole economy of the vital powers. My experiments on this subject I shall divide into two sections. P. 53.

We have looked in vain through the two sections for the important discoveries which the author promises. The experiments detailed in them relate wholly to the contractions produced in the muscles of dead warm-blooded animals, by the application of the electricity of the pile; and the method of operating is the common one, i. c. by making the communication between the nervous and muscular systems. M. Aldini has often performed his processes on the dead human subject; but the accounts that he gives of his results, are rather disgusting than instructive. He entertains great hopes that Galvanism may be usefully applied in cases of apparent death from suffocation. This part of the subject is really worthy of the attention of enlightened physiologists; and, as yet, no well conducted trials have been made in relation to it.

ling,

In confidering the general medical applications of accumulated Galvanic electricity, M. Aldini displays much more modesty and judgement than in the other parts of his work. He observes—

I am fully convinced that much still remains to be done, in order to discover the best methods of employing this new agent; and that the facts respecting it, though numerous, have not been reduced to principles sufficiently certain and satisfactory. There are, nevertheless, some results and observations exceedingly curious, which, if confirmed by new experiments and researches, may enable us to obtain convincing proofs of its utility. New facts, however surprising, are not to be despited merely on account of their being different from any before observed. 2 p. 97. 98.

The author remarks, that the pile of Volta has great advantages over the common electrical machine, as to the permanency and uniformity of its action; and he acquaints us, that a very ingenious apparatus, for the application of Galvaniim, has been in-

vented by Mr Cuthbertson.

M. Aldini has made some experiments on the administration of Galvanism to the eyes of persons affected with blindness, but without much success. He afferts, that he has employed it with advantage in some cases of melancholy madness; and he quotes the experiments of the German professors, which are said to have produced extraordinary effects in restoring the sense of hearing.

We are afraid that many of the statements of cures are premature, and that the refults require confirmation. It has been proved, we think, by various experiments, and particularly those of Dr Woolaston and Van Marum, that the electricity of the pile differs from the electricity of the electrical machine, chiefly in being of a lower degree of intensity; hence it passes with less facility through imperfect conductors, fuch as the animal organs; and, confequently, it is difficult to imagine that it can be pollefled of greater powers in modifying the vital functions. We refrain, however, from deciding on this point; and we wish that new trials may be made. For the establishment of the esseacy of a new medical agent, an immense accumulation of evidence is required; and accounts of experiments made by enlightened practitioners, would, in fome meafure, tend to prevent inexperienced persons from employing it as an instrument of quackery.

The anonymous editor of M. Aldini's work, has added to it a translation of two Latin differtations on Galvanism, published by the author at Bologna, one in 1793 and the other in 1794, and an appendix, containing an account of some experiments made by M. Aldini on a malefactor executed at Newgate; a detail of experiments of a finilar kind made at Bologna; and some observations, which show that Galvanic electricity is capable of par-

fing, with the utmost rapidity, through an extensive chain of con-

ducting bodies.

We shall not offer any remarks upon these additional papers. We have perused them without much interest. They add confiderably to the size of the volume, without furnishing any new information. M. Aldini's earlier memoirs contain very little which applies to the present state of the science; and his experiments upon the human body, are of the same kind as those detailed in the second part of his work.

ART. XVI. Chronicle of Scotifb Poetry, from the 13th Century to the Union of the Crowns, with a Gloffary. By J. Sibbald. 4 vol. 8vo. Edinburgh and London. 1802.

THE Chronicle of Scotish Poetry does not contain much which will be new to those who are possessed of the publications made from the Bannatyne MS. by Ramsay and Lord Hailes, together with the ancient Scotish poetry of Pinkerton. A full copy of the works of Sir David Lindsay (excepting only the Four Monarchies), is given from the editions of Charteris and Dr Machabeus. Confidering the high reputation which the worthy knight long maintained among the Scotish peasantry, so high as to be chosen in preference to the Bible, as the proverbial standard of truth, and even as the foother of their last moments, * we cannot help thinking an accurate edition of his poems an acceptable prefent to the public. From his play, the most curious of all his works, Mr Sibbald has only given the scenes contained in the edition 1602, omitting the introduction, interludes, and concludinguscenes, which occur in the Bannatyne MS. This omission we greatly disapprove of, as the scenes omitted contain many curious historical documents, as well and strange picture of manners. It is true, they are interlarded with gross indelicacies, yet not with worse than are to be found in the writings of Dunbar, and many other poems in the Chronicle, nay even in the body of the play itself. Without adopting the systematic defence of indegency fet up by one learned editor, we declare ourselves under no apprehension of the public morals suffering from the naked coarleness of an author, who can only be understood by antiqua-. ries. Their ears are, we have been told, like those of confesiors;

There's not such a word in Davie Lindsay. is still a proverbid expression of disbelies. 'Hout awa' wi your dast posterio.' faid an expiring man to his pious neighbour, who was reading for his edification a chapter of the Bible, 'bring me Davie Lindsay.'

and if we could banish from the fashionable world the amatory effusions of Mr Thomas Little, we should be little anxious about the 'likerous lays' of father Chaucer, Dunbar, or Lindsay.

Besides the poems of Lindsay, we recognize those of Alexander Hume, author of the Day Eftival, which have confiderable me-Tit, particularly that on the defeat of the Spanish Armada, although in many places bordering on burlefque. All Dunbar's poetry is printed from the Bannatyne MS. with great apparent accuracy. Two or three pieces, hitherto unpublished, have been extracted from the fame invaluable collection, which, notwithstanding, does, in our opinion, still contain much yet unprinted matter, which Mr Sibbald might have advantageously included in his collection, though at the expence of leaving out or shortening his quotations from Barbour, Blind Harry, and Gawain Douglas, whole works are in every one's hands. Even such extravagant pieces as 'Lichtoun's Dreme, 'Rowll's Curfing,' and 'Cowkelbie's Sow, ' are worthy of being preferved, for the language and manners, though, Heaven knows, the matter is sufficiently contemptible. While we notice these omissions, we may also remark, that the tale, ' How a Merchant did his Wyfe betray," which, upon Mr Ritson's authority, Mr Sibbald has inferted in his Chronicle, feems to have no pretentions to be called a Scotish composition. Neither, in Mr Ritson's copy published from a MS. in the public library at Cambridge, nor from one preserved in the Auchinleck MS. at Edinburgh, can we perceive grounds for this supposition; and, for the northern tone which it has acquired in the Chronicle, it is indebted to the avowed alterations of fpelling adopted by Mr Bibbald.

In the third volume of the Chronicle, we find a collection of Gude and Godly Ballates,' intended by the compofers to fuperfede ' bawdrie and unclean fongs.' This device for edifying the young and gay, by applying facred words to popular airs, was a favourite experiment of the Reformers. The plalms of Clement Marot were fung by the Huguenots to the air of Reveillez vous belle endormie; and Sternhold undertook his version, that the maids of honour and courtiers might fing them instead of sonnets. 'But they did not; 'adds Anthony Wood, with great naiveté, 'fave but a few.' Wedderburn, the religious poet of Scotland, carried his inroads into this province of the realm of darkness still farther. He not only adopted the tunes, but, as if the unbecoming affociation was not sufficiently burlesque, he even parodied the words of the favourite profane airs of their time. Mr Sibbald has published feveral hymns founded on the popular songs of Down, belly, downe," The hunt's up," I'll never leave shee, ' Wha's that at my chamber door, ' John come kifs me N 4

now, ' &c. We differ from the learned editor, when he fays that the hymn beginning, 'The wind blaws cald,' vol. III. p. 447, is 'doubtless to the tune of "Up in the morning early." On the contrary, we think the measure and inflexion goes much more readily to the tune of 'Drive the cold winter away,' which is much more ancient than is generally believed.

The works of Dunbar, Sir David Lindsay, and other authors, appear to us to have suffered in consequence of the rigid chronological arrangement adopted by Mr Sibbald, in consequence of which they are intermingled with other poems according to their supposed dates; and the reader is consequently deprived of the satisfaction arising from observing the gradual progress of each

author in composition,

The notes by which these poems are accompanied are not numerous, nor do they display extensive reading beyond the line of national antiquities; but they are plain, sensible, and generally very accurate. Where elegance has not been attempted, no centure is due, because it has not been attained. The notes of Lord Hailes have been, with a studious veneration, retained by Mr Sibbald, even where he states a contrary opinion. Both commentators appear to us to have fallen into a gross error in attempting to identify John the Reif (or robber) with the samous Johnie Armstrong. John the Reif is mentioned as a hero of popular romance by Gawain Douglas in the Palice of Honour, written in 1501, and Armstrong was not executed till 1529. Although Mr Sibbald remarks the former circumstance, he does not contrast it with the latter.

Mr Sibbald differs from Lord Hailes respecting the date of a poém called a General Satire, in this piece, vol. iii. p. 221. The King and Queen are both mentioned; whence Lord Hailes has fixed its date as subsequent to 1538, when James V. was married. Mr Sibbald supposes the reference to be to James IV. and his Queen, and the ballad, of course, to be prior in date to 1513; because he conceives Ingles, to whom the poem is attributed in the Maitland MS., to have been Sir James Inglis, Abbot of Culrofs, celebrated by Sir David Lindsay, and murdered by the Baron of Tullicallan in 1531, seven years before the date affixed by Lord Hailes. But the miserable state of the country which the fatire describes, the allusion to the College of Justice instituted in 1532, and other circumstances of internal evidence, incline us to Lord Hailes's opinion; in which case, the author may have been John Inglis, called by Pitscottie, Marshal. He was an actor by profession, and performed in the plays at the marriage of James IV. (Leland's Collection, vol. iv. 158.) When a young man, he witneffed the famous apparition of St. Andrew at Limithgow. See more particulars of him in Chalmers' Apology, p. 617. Мr

Mr Sinbald is widely mistaken in a proposed correction of the following passage in Hardinge's Itingrary:

Then fend a hoft of footemen in At Lammas next through all Lawderdale, And Lammer more wode and moffin over rin, And eke therewith the Stowe of Weddale.

The last place, Mr Sibbald apprehends to be an error of the transcriber, for 'Tweddale,' vol. I. p. last. But it is, in truth, the village of Stowe upon Gala-Water, situated in what was then called Weddale. * The Black Priest of Waddell is one of the three persons entitled to the benefit of the Lauch of Clan Matdus, as mentioned by Winton, B. vi. th. xix.

Mr Siobald, in a note in vol. I. p. 358, has printed, from Millar and Chapman's Miscellany 1505, an old jeu d'esprit, be-

ginning,

. My Gudame was a gay wif, but scho wes right geud;

which he feems inclined to ascribe to Kennedy. It appears to us, in ftyle and composition, to be very nearly allied to the Fairy tale in the Bannatyne MS. beginning, 'In Tiberius' tyme the trew Imperatour;' and also, to another poem of the lame whimsical nature, called 'Ane Interlude of the laying of a Galit.' This list appears to have been the composition of James Wedderburn, the eldest of three brothers of that name, who, about the year 1540, composed certain interludes and plays against the Roman Catholic superstitions, which were acted at Dundee; and, in particular, according to Calderwood, he counterfeeted also the conjuring of a ghaist.' We have no hesitation, from internal evidence, to ascribe the other two poems to the same author.

The poems in the Chronicle are, in general, accurately printed from the original manufcripts. Instances of the contrary may, however, be pointed outs, as, in the names of the tunes quoted. Vol. I. p. 379, he gives us, 'Trevass,' for 'Trenass;'—'Lemman dawis it necht day,' for 'Joly Leman dawis it nocht day;'—'Our-brans,' for 'Orliance.' Other instances of minute error might no doubt be pointed out; but the general correctness of the work does credit to the diligence and attention of the editor.

The gloffary, by far the most valuable part of the work, occu-

The etymology seems to be from we, sandus and dale,—the valley through which a river flows. But in Nennius, it is latinized vallis doloris, from wae, forrow. In the church of St Mary, at Stowe, is said to have been preserved a piece of the true cross, brought thither by King Arthur, which probably was supposed to sandify the whole dale,—3d Gale, p. 114,

pies the fourth volume, contains no less than fix thousand words, and may be confidered as a very correct dictionary of the Scotish language previous to 1600. There is prefixed, a short essay on the origin of the terms, Piete, Caledonii, and Scoti. Mr Sibbald has abridged, very neatly, the arguments for what has been called the Gothic system of Scotish antiquities. There is added, an hypothesis concerning the name of Edinburgh; and some ingenious remarks upon the rythm of Saxon and Scotish poetry, with

which we were much pleafed.

In the gloffary itself, Mr Sibbald displays a great advantage over all late gloffarifts, from his intimate and habitual acquaintance with the Scotish dialect as spoken at present. It is imposfible to enumerate the absurd etymologies which have been offered to the public, merely from ignorance in this effential point. We do not mean to fay, that the common and vulgar interpretation of a Scotish word is uniformly to be received as its ancient meaning; but the former, although enlarged, restricted, or variously modified, by the course of time, seldom fails to guide us to the latter. To this important requisite, the glossary adds those of respectable searning and indefatigable inquiry, which appear particularly from constant reference to the dialects of the North. Mr Sibbald, a steady adherent, as has been faid, to the system of Pinkerton, which derives the Picts from a Gothic root, and suppoles them to have transmitted their language to the Lowlands of Scotland, has the following striking remark: 'The Scotish dialect has a much greater affinity with the Anglo-Saxon, and with the Teutonic or Belgic, than with any of the Scandinavian dialects; and with respect to the two first, it appears, that a cognate word is more readily discovered in the Teutonic dictionary of Kilian, than in the Anglo-Saxon of Leve.' The latter part of this observation, founded, doubtless, on Mr Sibbald's experience, will prove a stubborn argument against those who derive the Lowland Scotish dialect from their neighbours of England. Yet, in fome instances, Mr Sibbald seems to us to have carried his reluctance to admit an Anglo-Saxon root, a little too far. For example, he derives fett, a constitution, from faett, Swedish, modus vel ratio, which we would rather deduce from the Anglo-Saxon feht, pactum, fædus. In like manner, the editor of the Chronicle is fometimes partial to a Gothic descent. Thus, he inclines to derive Ketheryns, Highland banditti, from the Teutonic Ketter, infectator; whereas, it is the original Gaclic for a troop of foldiers, and was long and generally used under the abbreviated form of Kern, to fignify Irish or Highland thieves. See Derricks licture of Ireland, &c. The household spirit, called Diffunie, has no affinity, as the gloffary affirms, with the Swedick Bry,

Bry, turbare vel vexare, far less with the Saxon Brynia, Ensis; which, by the way, rather fignifies Galea. Whatever the primitive may be, the Brounie, from his occupation and habits, may be identified with the Portuni of Gervase of Tilbury. Otia Imperialia, p. 960.—Bensbie, a kind of spirit, is derived from Benz Teutonic, Diabolus, and ultimately from Bann, excommunicatus; whereas this being, who is still reverenced as the tutelar dæmon of ancient Irith families, is of pure Celtic origin, and owes her title to two Gaelic words, Ben and fighcan, fignifying the head or chief of the faeries. Farifolk, or faery folk, is derived in the glossary from Teut. bieren, feriari vel festos dies agere. The French faerie is a much more obvious root; which may, perhaps, be ultimately traced to the peri of the Persians, or feri of the Saracens.-With the same anxiety to find a Teutonic cognate, fode is derived from Swed. fogde, Teut. voght, voghde, præfectus. But this disagrees with the epithet of frely fade, which occurs fo frequently in metrical romance, and which proves that the word is a participle or adjective. It is used in many cases where Sibbald's derivation is inapplicable; as, in the romance of Ywain and Gawain, it is introduced as a contumelious expression:

' Sertainly so fals a fode
Was never cumen of kingis blode.'

By Winton, and many other rhimers, it is applied to a woman,

Syne Saxon and the Scotis blude

Togyder is in you frely sude.' (Queen Maud.)

In the ancient romance of Hornchilde, a knight calls his fon (a youth, not a commander),

' Mi childe my oune fode.'

In Sir Triftram, we have it thus fpelt;

Nas never non fairer fedde
Than Maiden Blanchflowe,

We believe it signifies nothing more than 'fed,' or 'nurtured:' Freely fode, will thus mean, 'well nurtured.'—Mulde-mete, the last meat before death, is explained from multen, Swedish, rotten; whereas, it is simply mold-meat, or food previous to being laid in mold.—A few other instances might be pointed out, in which Mr Sibbald's attachment to a Gothic, and especially a German derivation, has led him to neglect nearer cognates in the Celtic, Anglo-Saxon, and French; but enow of derivations will remain undisputed, to afford no small matter of triumph to the adherents of Pinkerton.

As a specimen of Mr Sibbald's style, of his zeal for the Gothic system, and of the candour with which he states arguments contrary

Mr

contrary to his own opinion, we shall transcribe his observations on the letters qub, used in ancient Scotish for qub, and which is known to be one of the few peculiarities which distinguish the manufactions of our country from the old English, and, of course, favour the system of those who derive our dialect from a different modification of the Teutonic supposed to have been spoken by the Picts.

The use of gub, instead of wh or hw, is a curious circumstance in Scotish orthography, and seems to be borrowed immediately, or, at first hand, from the Gothic, as written by Ulphilas in the fourth century. In his Gothic Gospels, commonly called the Silver Book, we find about thirty words beginning with a character (o, with a point in the centre), the power of which has never been exactly ascertained. Junius, in his gloffary to these Gospels, assigned to it the power and place of eu. Stiernheim and others have confidered it as equivalent to the German, Scandinavian, and Anglo-Saxon bw. And, laftly, the learned Ihre, in his Suio-Gothic Gloffary, conjectures, that this character did not agree in found with either of thefe; but ' fourm inter ba et qu medium habuisse videtiar.' Unluckily, he pursues the subject no farther; otherwife, he could scarcely have failed to suggest the Scotish qub: particularly as a great proportion of these thirty Gothic words can be translated into Scotish by no other words, but such as begin with these three letters, ex. gr., Goth. qua or bwa, Scot. quba, Goth. quis or hwis, Scot. quhais, Goth. quazuh or hwazuh, Scot. quhafo, quhafoever. Goth. quhathro or hwhathro (unde), Scot. quharfrae or quhair-thrae, Goth. quan or bewan, Scot. quhan, Goth. quar or hwar, Scot. gubar or gubair, Goth. gudar, quathar, Scot. gubeder, gubether, Goth. queila or heveila, Scot. qubil or gubyle, Goth. quileiks or hwileiks, Scot. gubilk, Goth, gubait or bwait, Scot. gubeat, Goth, queit or hweit, Scot. qubite. When these Gothic words, therefore. come to be again mentioned, it will be no great innovation upon the authority of Ihre, to adopt some middle found between the qu and bw. But, notwithstanding of its striking coincidence with the Scotish qub, to avoid any charge of hypothetical partiality, a different element or combination of letters shall be here assumed, viz. gw; a found which appears to furnish an apology for Ulphilas having coined a letter unknown in the Greek and Roman alphabets; a found, too, which occure not unfrequently in the ancient language of Germany, ex. gr. genaire, verus; gwallichi, potentia, gloria (this word ferves in some degree to direct us to the found, it being allo written cudithi); gwalliebon, glorificare ; generf, fymbolum, conjectio ; gwiurtere, ignitorum, When the harsh sound gave way everywhere to the bw, (and, at least in one attance, to w), the character which Ulphilas had invented to express it, fell of course to be laid aside. In Scotland alone, the found was preserved, and appears to this day under the form of Qub.'-Glosiaay, Qu.

Mr Sibbald adds the conjecture of a learned friend, who feems inclined to think that the Gothic character under confederation 'appears to be the ancient Eolic Digamma aspirated in pronunciation; and probably thinking that derivation of a pure Gothic letter still too modern, questions whether it may not be derived from the Hebrew ain, ' the pronunciation of which is a matter of great dispute.' If Mr Sibbald had confulted Hickes. with whose labours he seems to have been little acquainted, he would have had the fatisfaction of feeing his first conjecture buckler'd by that mighty authority. He fays expressly of this Mrefo-Gothic letter, fonat ut hw Anglo-Saxonum, wh Anglorum, vel gub Scotorum, in qubite, qubether, qubut, qubuy, qubilkui? and, in the rules for applying the letters, Hickes observes, that Ulphilas was not the inventor, but the collector and applyer of this fixteenth letter of the Gothic alphabet, which has the power of an afpirated o, as, ho or hop. We cannot help thinking, that this aspirated, or rather guttural sound of qub Scot. is equivalent to the gu of the old English and modern Spanish; as, guild, in the former, is indifferently spelt whelde; and aguilar, in the latter, is pronounced awhuilar. The difference in form betwixt the written g and q, is very trifling, although the Scota do feem to have been fingular in adopting the latter shape. Whether this can, in the penury of early manuscripts, be traced to fuch antiquity as to authorife the conclusion, that it was derived from a tribe of Goths unconnected with the Saxons, we cannot stop to inquire. The controversy has been maintained with great warmth; we leave it, with the prudent resolution of Dame Quickly- We will not burn our fingers, and need not. indeed la!'

In the general explanations of Mr Sibbald, a very few inaccu-Bole is explained, 'a little armory or closet.' This is not accurate: it means a deep window or recess formed in the wall. Three different explanations are given of the word boun; bowdin, bodin, bowyn, boun, furnished, provided, &c. : boun, going, moving; and bounit, tended, went. The first of these only is correct. Boun means, equipped for war or travel; and boun, or bebounit, to a place meant to be prepared to go thither. It is retained in the maritime phrase, 'whither bound,' which does not precifely mean, whither are you failing, but for what port have you been fitted out. Obliquely, no doubt, the phrase may imply the immediate progressive motion; but this is not its primitive or proper sense. Cleugh is not accurately defined, opposite rugged banks: 'it means, the hollow betwixt such banks; and implies, that such hollow is very narrow. Swengeour does not fignify, unless by implication, 'a stout wencher, or one who

reame about after the girls; ' far less is it derived from Teut. functes virgo, from swentzen, vagare; from Danish, swangrer, gignere y from Old English, fwinker, labourer; or, sinally, from Sexon, fwancan, labourer. It means only a strong man, or, as the vulgar still say, a swingeing fellow, from Mæso-Goth. swintheius, potentia, or swinths, validus, robustus, as in Ulphilas gatayida swinthein, fecit potentiam. Buttok mail is too generally explained ' fome kind of rent paid to the Church,' fince it means, the fam paid to ranfom a fornicator from doing penance on the stool of repentance. If lycame or likam fignifies exclusively a human body while in life, (which we greatly doubt), it differs strangely from its cognate leichnam, Germ. which means a corple. Eschelle is explained, generally, as a particular manner in which the divisions of an army or regiments were disposed.' The word is retained in tactics, and means the oblique movement of a number of divisions. Mr Sibbald, however, knew more about it than the French General of cavalry, who, when defired to march in eschellon, answered - Sacre! c'est bien pour l'enfanterie, mais comment faire monter mes chevaux par une eschelle!' Bumbard certainly signifies a cannon, as explained by Mr Sibbald; but he should have added, that it occasionally fignifies a black leather tankard, otherwise called a black jack. Trinculo compares a black cloud to a huge bumbard about to fpill its liquor. Indeed, the artillery of the field and table often exchanged epithets, and furnished analogies, perhaps, because the leather cannon, at one time in use, resembled the tankard. In Monsieur Thomas, when Lancelot brags of having broken the butler's head, Sebastian answers,

No, base palliard,

I do remember yet that onslaught; thou wast beaten
And fledst before the butler, a black jack
Playing upon thee furiously: I saw it;
I saw thee scattered, rogue'

Some inconsistencies have also crept into this valuable glossary. Thus, 'knapicha' is, in the Chronicle, confounded with 'knapfack;' but, in the glossary, is rightly explained as a distinct word, fignishing a steel cap or morion. Some words of difficult interpretation are altogether omitted, as, yule, a dwarf; wobat, a hairy caterpillar; curle-doddy, a fort of clover; cum paucis aliis. A pretty large class of omissions might be made up from the 'Adventure of Sir Gawayne;' but the editor probably thought with "is, that, in such alliterative poems, many words are used rythmi gratia, in a very constrained and oblique sense, and some are probably forged 'for the nonce.' Upon some suture occasion, we may give the public our sentiments on this head.

In one instance, at least, Mr Sibbald appears to have been a fixtle missed by national partiality. Thir, which is only a intraction of the cockney phrase, these here, is said to have no corresponding English word; as, thir shillings (which I hold conceased in my hand) are better than these upon the table. The meaning would be perfectly expressed in English, by saying, These shillings are

better than those.'

Far-strained etymologies of the names of persons and places, afford most amusement to the scorners, and are heedfully to be avoided in this branch of literature. Mr Sibbald, whose judgment seems greatly to have counterbalanced his imagination, affords sew openings for mirth, at the expence of his derivations. Nevertheless, as if it were destined that no glossarist, how soberminded soever, should absolutely resist the temptation which most easily besets them, the editor of the Scotish Chronicle has succumbed in one remarkable instance.

Sneddon, Sneddon Cafile, Snowdon, an old name of Stirling Caftle, and so called by the people in its neighbourhood at this day; as Edinburgh is called Old Reikie. William of Worcester, an ancient English. historian (about 1440), mentions Striveling, alias Snowden-West-Caftle; and, in latter times, Sir David Lindfay gives it the same appellation (see vol. II. p. 95.) The name of Sneddon, or Sneddoun, was probably assumed from the appearance of the rock on which the castle is fituated, viz. a fnedden, or fnodden rock. See Sned, to hew down, or lop off. Sax. Snidan, secare, resecure, dolare. Otfrid. Snide, abscindere, which corresponds exactly with the appearance of the precipice. In the Saxon Chronicle, under the years 922 and 924, the city of Nottingham is called Snottingham, originally perhaps Snodingham, which, according to the description of the place, seems to be derived from the same kind of origin. This leads to a new etymology of Edinburgh. If Stirling was Snoden, or Snedin-West-Castle, we may safely presume there was also an East-Snedin Castle, i. e. a castle of fimilar appearance to the eastward of Stirling. And fince Nottingham was formerly Snottingham, it is not impossible that Edinburgh, in early times, was Snedinberg. After undergoing, like Snottingham, the elifion of S, it might for some time be Nedinbergh; and, at this period, the Gaelic name Dun-Aidan may have been formed. In the process of time, Nedenburgh (gallice Dun-Aidan, or Dun-Neden) may have given, way to Edinburgh, the initial N being omitted, as in the word adder, or ferpent. Sax. nedder. Evis from nieren renes.' Gloffary, voce Saeddon.

This is the true language of fanciful etymology. It is, in the first place, assumed, that Snadoun must mean the Snadoun, or Snedded-Down Castle: 2dly, Because one English historian cafually describes Stirling by its situation, as Snadoun-West: there must have been a Snadoun-East, which is mentioned by no histo-

with whatever: 3 dly, The fupposed Snadoun-East must be Edinburgh, originally called Snedinburgh, then Neddenburgh, and lands Edinburgh: of all which unvouched derivations, it is held fusicient cyldence, that Snottingham has been changed into Notthey ham, a change much for the better. We are inclined to difpute the very ground-work of this derivation, which reminds us of the noted etymology of King Pepin. The word is almost uniformly spelled Snadown or Snowden, not Sneddon; neuher is the word burgh or calife added to it; so that, according to Mr Sibbald's etymology, the name would confift of an adjective, without a substantive. To make out his argument, Siming should have been called Snodden-ton, Snodden-don, or Snodden-berg, as well as Edinburgh, to which he aforibes the fame derivation. It has generally been supposed, that Snadoun was a borrowed name from Romance, given to Stirling during the folemnization of the rites of chivalry, when the characters assumed by the Kings of Scotland and their courtiers, were those of the Knights of the Round Snowden, a famous name in Wales, was thus, with its fabulous Arthur, transferred to Scotland. A passage in Lind. fay, which, we believe, is traditionary in the town of Stirling, feems to favour this derivation:

Adew, fair Snadoun! with thry towris hie, Thy chapell royal, park, and tabill round.

The resemblance of the neighbouring mountains to the description of Snowden, by Trevila, may have favoured the imposition of this name.

There ben hylles in Snowdonye, That ben wonderly hye, With heyghte as grete awaye, As a man may go a day; And hete Eriri in Walshe, Snowy hylles in Englysche.

Arthur's Seat, near Edinburgh, probably received its name from fome fimilar circumstance.

If, however, a more ancient etymology be prefixed, Snadoun may mean simply Snow-toun; for, in winter, the losty mountains of Perthihire, in the vicinity; may entitle it to that appellation.

But if we cannot agree to Snadoun being rendered Snodden, far less will we allow that Edinburgh was ever called Snodden-burgh. Manifold have been the etymologies proposed to explain the name of our Good Town. Edinburgh has been derived from Edwin, a Saxon monarch, who lived some hundred years after it was known by its present appellation; from Aidan, a Scotish monarch, who, for aught we know, never lived at all; from Edin, Oaclic,

Gaelic, the face of a hill; and from Aidan, British, signifying a wing; whence, Camden labours to identify it with the Castrum Alatum. Almost any one of these definitions appears to us more plaufible, than that of Mr Sibbald. Indeed, if we give credit to the British poet Aneurin, the bard of the splendid song, who slourished in the fixth century, Edinburgh was then inhabited by the Celts; and consequently its name is not to be derived from Snidan, or any other Saxon word. Mynnyzawg, Prince of Edinburgh, commanded the confederate armies of the British chiefs dwelling betwirt the Friths of Forth and Clyde and the Roman wall, and fought the bloody battle of Cattracth (perhaps Ettrick). in which he sustained a bloody defeat from the Saxons of Deiria. or Northumberland. Three hundred and fixty-three warriors, all of them Eudorchawg, or wearers of the golden chain, marched with Mynnyzawg to this fatal battle: three only furvived the conflict; the bard Aneurin was one of those three; and his lamentation for the fate of his comrades is still extant. If we look for the etymology of Edinburgh in the British language, which, confisently with this anecdote, we certainly ought, we incline to prefer that which derives the name from Welch, Edin, the steep face of a rock; a compound which occurs in Edinbelly, Edinmore, and other local appellations. When the Saxons acquired possession of the fortress, Dun-Edin of course became Edinburgh; the former name being still retained by the Highlanders.

The separate appellations of Myned-Agned, or Caer-Agned, rendered into English, Maiden-Castle, and into Latin, Castrum Puellarum (potius Puellæ), was probably originally conferred, from an idea that it was an impregnable or virgin fortress. This led to the fable of the Pictish Princesses being lodged there. We are surprised it has occurred to no etymologist, that Agned might in time be softened into Aned, and then inverted into Edan.

If the favourers of Mr Sibbald's opinion deny the authority of the Welch bard, the testimony of Saxon historians is not more favourable. The earliest mention of Edinburgh has been detected by the industry of Mr David Macpherson, in the Annales Ultonienses, a MS. in the British Museum, where this passage occurs, under A. D. 637, 'Bellum Gline Muxesan et Obsessio Edin.' In 960, Eden-town is mentioned in an old MS., quoted by Camden, as being evacuated by the Saxons, and abandoned to Indust, King of Scots. The place is called Edenssburg, in a charter of Alexander I.; Edwynesburg, in one of David I.; Edenburc and Edinburgh, in the Chronicle of Melrose; Edwinesburch, by Simon of Durham; Edwynesburgh, in the Chronicle of Lanercost; Edensburgh, by Hemingsord; Edenburch, in the Polychronicon of Higden; Ednysborg and Edeneburgh, by Knighton; Edynvol. III. No. 5.



bunch. Edynbrowch, Maydyn Castle, and the Sorrowful Hill, by the prior of Lochleven; * Dun-Edin, by the Highlanders; and by the Welch. Myned-Agned. Not one of these various readings give the least configurance to Mr Sibbald's conjecture; so that the San necessary to his hypothesis, must have been cashiered before

637, which is hardly to be admitted.
In the introduction to the Gloslary, Mr Sibbald infifts, that Edinburgh, or Sneddinburgh, as he will have it, is the same with Abernethy; thus, not only confusing two very opposite founds, but altogether forgetting that Aber is a Gaelic word, signifying the mouth, and cannot consistently be combined with his Saxon Sneddan, or Snedden. This reminds us of an ingenious gentleman, who derived the etymology of Stopo from a Latin and French word, Sto-band, I stand fair. But enough of the only conjecture in this valuable lexicon, which can be termed over-strained and whimsicals

Our limits do not permit us to bestow any further criticism upon Mr. Sibbald's Glossary, which we consider as a very important fiational acquisition. The Chronicle itself contains little that may not be found in the libraries of most antiquaries; but all such libraries will, in future, be imperfect, without this Glossary. The sew errors which occur, are such as the most sedulous attention could hardly have avoided; and while it is our duty to remark them, we cannot but regret, that these points of discussion are now indifferent to the author.

What Hingest utter'd, or how Horsa writ!

. We are no great admirers of fashionable printing, hot-press work, or cream-coloured paper, yet we could have wished that this useful book had been executed in something of a better style. We do not fay, that it is inaccurately printed; and certainly, as was recommended by Lord Chestersield to George Faulknor, the paper is somewhat whitish, and the ink rather blackish; but a Chronicle of National Poetry should not be printed quite like the Cheap Repository, or the Pilgrim's Progress. The paper is of so, inferior a quality, as not to fland the press; so that most copies we have feen are much damaged and torn; besides which, the printers or booksellers devils, entertaining probably little respect for the external appearance of Mr. Sibbald's labours, have folded the sheets with eruel inaccuracy. These are evils which require to be checked where they occur, as much as the opposite extreme of abford and expensive decoration. ART.

Wynton confounds Edinburgh with Allchayd, or Dombarton.

ART. XVII, The Political and Confidential Correspondence of Lewis the Sixteenth: with Observations on each Letter. By Helen Maria Williams. 3 vol. 8vo. London: G. & J. Robinson, 1803.

XTHOEVER reads this striking title-page, will immediately be difposed to ask some questions, as to the authenticity and genumeness of the letters. But, in a particular of such indispensable importance, the editor has not thought fit, perhaps had it not in her power, to fatisfy the just curiofity of the public. The ftory the tells in the preface is imperfect, and is told very foolists ly. We are given to understand, in the way of allusion and hints, which were probably thought more elegant than a plain flatement, that a French edition of these papers was prepared for the press by certain friends of the late King: that this publication would have confilted of two volumes, one containing his Majefty's private letters, the other his compositions on public and general subjects: that, in the preface of this intended edition, it was stated that the originals ' are deposited in the hands of a personage who will think it a pleasure and a duty to communicate them to such as are curious or incredulous! that this statement is true: that the French publication has been deferred, and the manuscript volumes have fallen into the hands of Miss Helen Maria Williams-but by what means, she fays, 'it is unnecesfary to mention:' finally, that she has obtained ! such proofs from men who now fill eminent offices under the republic, and from others who exercised the highest functions under Lewis the Sixteenth, and who were confequently instructed both as to the spirit and the letter, as leave no doubt whatever with respect to the authenticity of these papers.' There is nothing very improbable in any part of this story; but no part of it is here proved: In its present shape, it does not wear the slightest semblance of evidence. The public can never yield an entire credit to thele volumes, until it thall receive information, in what manner the offginals, if such really exist, have been preserved and collected? The literary manuscripts of Lewis probably remained in his own possession, until his private property was plundered; and then must have fallen into the hands of perfons who were not likely to yield them up to the lurking or emigrant friends of the muri dered Monarch. Most of the private letters now published were written under fuch circumstances of agitation and emergency, that copies would hardly be retained at the time; and feveral of them are addressed, in terms of reproach, to a personage, whom, if he has voluntarily furrendered them to the public eye, we must se once believe to have merited those severe repreaches, or to be actuated at least by such herolim, as to devote his own character Q 2

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to the confectation of his Sovereign's fame. It is impossible, therefore, that we should seel ourselves completely satisfied with regard to these papers, until their progress and transmission has been faithfully traced from the closet of Lewis to the hands of the present possessor. The name of that person, too, the public is entitled to require, as well as the means by which the editor contrived to obtain copies. The manner in which her preface is written, implies an unwilling confession, that she has never seen the originals; nor should we, indeed, have been liable to take it for granted, that a communication of fuch importance would be made to a foreign refugee authoress, whose reputation in her own country has scarcely reached beyond the customers of the circulating fibraries. From all these considerations, we do not hesitate to fay, that the letters, at present before us, as manuscripts of Lewis, appear without any external evidence of that allegation, and without a fingle circumstance in the manner of publication, that, independently of the letters themselves, can inspire confidence in

their authenticity.

· Notwithstanding this distartisfaction with the manner in which they are introduced to the public, we shall venture, without any consciousness of inconsistency, to express our persuasion, that the letters, at least most of them, are genuine. We owe this belief to the impressions of internal evidence. In their general manner and turn of expression, they bear a sufficient resemblance to the writings which have long been known as the avowed or afcertained compositions of Lewis; while the sentiments that predominate, and give a character and confiftency to the correspondence, accord with that benevolent, but unrealting temper, which is ascribed to the King by all who had opportunities of observing him, and which is established by the uniform tenor of his conduct. He shows here all his amiable weaknesses, and his many estimable virtues. The plainness, too, of the diction in mest of the letters, is altogether different from the finery and flippancy that prevail among French writers of the present school; and there are many touches of that just pathos and dignified emotion, which is natural only to a good man, in the auguish of unmerited fuffering, amid the wrecks of external grandeur. To the weight of internal evidence, we do not choose to disguise that we have admitted a ferong confirmation, from prefumptions of a more indirect nature. We cannot believe, that the editor of the present publication would descend to assist any forgery, by which the reputation of Lewis the Sixteenth would be heightened, and his pory endeated. On the contrary, the maintains, throughout discreations, a malignam flangile against the conviction di their letters manot fail to impress on every well-regulated mind.

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mind. A person may be capable of irrational, unfeeling, incurable bigotry, who would not be guilty of a direct fabrication, and a fanatic, who has taken up the trade of authorship, though not likely to invent proofs destructive of the favourite creed, might yet find it convenient to gratify the curiofity of the public, referving a happy felf-justification in the idea of repelling all this evidence, by the force of an eloquent and ingenious commentary. Our application of this prefumption to the prefent instance may at first be suspected of harshness; by some courteous and gentle readers, perhaps, will be deemed ungallant. But, in an offence against generosity, and all humane feelings, we cannot permit that confideration of fex, which aggravates the delinquency, to foften the punishment. Nor will our severity appear extreme to any, who shall labour, as we have painfully done, through the large portion of these volumes, of which Miss Williams claims the demerit.

Our readers must be anxious to peruse some of the letters; and we are no lefs impatient to quit, for such interesting objects, the irksome and humiliating talk of exposing imposture, and chastifing conceited duliness. But no part of our duty may be dispensed with. The three volumes, now in our hands, furnish a most reprehenfible specimen of what is called book-making. All the original materials might have been contained in a very fmall volume; but the article (so it will be called in Paternoster-Row) is made up by a translation of all the letters, and by a long commentary on each. The style of the translation, and the temper, as well as the materials of the commentary, are defects of a different kind, which we shall presently notice. But this method of adulterating their wares, of afforting unmerchantable commodities with those of necessary demand, of making out a large bulk by a mixture of rubbish, is an imposition practifed upon the public by the literary tradesmen, and ought to be repressed, if possible, by literary po-The translation is superfluous to those, who have access to the original; the original is useless to those, who must remain content with a translation; and the commentary, we are fatisfied, will not be perused by either the one or the other. For the accommodation of the public, we hope fome bookfeller will undertake a correct edition of the originals alone."

We have submitted to compare the translation of Miss Williams, with a great many of the original letters; and our opinion is, that it is executed very inadequately, and betrays frequent marks of carelessness. The peculian merits of the King's subjected timple and the character of his composition almost oblication place of a natural expression, which varies with the session of the writer, and rifes above its usual plainness, with

out differt, into dignity or tendernois, we get for ever the tawkry building and the chilling affectation of Mile Helen Maria Williaming. In a letter of the 26. August, 1789, Lewis has described with a just concidencis of metaphor, the state of his public sociings; en ne me livsent point à cet enthousialme qui s'est emparé de tous les ordres, mais qui ne fait que gliffer sur mon ame et instead of which the English reader is to be sickened with the servent of enthulialm which hurries on all the different orders of the state, but which only glides lightly over the surface of my Buli !: The picture sque word torrent is an especial favourite with this compiler of novels, who has prefumed to transcribe the forrows of the last of the Bourbons: 'Sans movens repressifs,' the laments, at a more disastrous period to the old Duc de Polignac), Sans moyens répressifs, je fais seul tête à l'orage; mais cela peut-il durer long-tems? which is thus debafed, without any means of repression, I stem alone the stormy torrent; but can I long relist?' Again, la tourmente révolutionnaire a troublé toutes les têtes, ' is rendered, ! the revolutionary torrent has dizzied every brain; which makes nonfense of a correct image. In the course of some pleasing thoughts relative to the education of the Dauphin, Pervis exclaims, La gloire militaire tourne la tête; eh! quelle glaire, que celle qui regarde des flots de fang humain, et ravage l'univers; ' military glory, (we have it again) dizzies the brain; and what species of glory is that which rolls its eye over streams of human blood,' &c. The most easy passages are sometimes rendered with such slovenly negligence, that the very tone of the English language is lost as much as the elegance of the original. Of this, the following is a sufficient specimene The sentence occurs in a letter to Malesherbes, which we shall afterwards give at full length.

Vous balançates long-tems à venir respirer, à ma cour, un air qui convenait peu à la touchante simplicité de vos mœurs; mais Turgot vous sit, entendre qu'il se pouvait pas, sans vous, opérer un bien durable; il vous decida; et je l'en essimai d'avantage. Vol. 1. p. 43.

You long balanced whether you should come, and breathe the air of my court, so ill in sympathy with the interesting simplicity of your manners. Turget made you understand, that, without your sid, he could operate no durable good; he determined you; and I esteemed him the more in Yol, I, p. 40.

The general character of the translation is, that it is meanly literal. Muniversalise des Français, and l'imperturbable lite, must be bad phrases in any dialect; they are not surplied in Feeneh, because they are not very unusual; but the literal translation of them into English is in exquesable. We have somewhere the local fall worse; the speaks of Ann sparators of the legislation body.

body, and of those princes who have divertal the earth. So much for her acquaintance with the language of her original country; still more proofs might be collected to thew, that she is not yet naturalized to that of her adopted republic. For instance, de bonne heure, is translated often; hanchisseur, which is used by the King is allusion to a projected coalition or reconciliation of parties, becomes in her version approximation; the King says to Malether bes, vous êtes, si vous the permettez de le dire, un pen égolste dans votre vertu, a delicate and complimentary reproach, by which he urges his request that the patriotic minister would still remain in his service, but which the translator, with rare ignorance of language and of sense, converts into coarse and absurd abuse, you are, permit me to tell you, somewhat an egotist in your virtue.

As the has contrived, even under the controll of an original text, to patch on so much unbecoming ornament, we may of course expect, in the free range of her own composition, to find her flaunting in all the colours and flowers that the can collect. We have 'lights beaming from every point of the mental horizon," and are told of 'a phalanx disciplined against the eruption of research and philosophy.' Though we are once permitted to "look back through the troublous vista of the revolution," yet we are from time to time reminded of 'our regenerated days;' one is apt indeed occasionally to forget them. In a long and senseless differtation which the introduces, our readers will wonder why or how, on the politics of Virgil and his ivory-gate, we are informed that that poet ' sometimes threw out his republican soul athwart the cuiraffed breaftplate of the courtier: Befides there pictures, which are evidently all her own, the finishes fometimes the sketches that have been left imperfect by older masters, Boffuet, for example, and Burke. The Bishop of Meaux had declared, with confiderable truth and much bigotry, that modern infidelity was a detestable shoot from the faral stock planted in the fixteenth century, by the leaders of the reformation: 'it will be found, '(fays Mils Williams), 'on a closer examination, to have been rather an offset from the mysterious and monstrous trunk of papal absurdity. 'She is still more happy in another attempt of the fame kind.

It was at this period that the queen, who, "like a morning ftar, had just appeared on our horizon," (to borrow the elegant phraseology of the orator), full of life, and splendour, and joy, found every beam refracted, when shot into the political miss." Once or twice she is somewhat playful and lightsome in her composition. The existed tyrant of Syracuse is samiliarly called Denys; and a comparison of somebody to Casar, for the purpose of say-

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ing there was no resemblance, ends with set us beg pardon of the shade of Czesar. The most striking effort of her gaiety is directed against chemistry, in a passage which equally displays her science and her fine-writing. In a billet addressed to Lavoisier, the King congratulates him on a recent discovery, and requests him to repeat the experiment in his presence: even this billet is not suffered to pass without a commentary, of which the following passage is only a part:

The experiments, which this celebrated philosopher is here invited to seperat before the King and his family, form the basis of the French system of chemistry. But, although they met with the royal approbation, and since with the adherence of almost the whole of the chemical world, this system yet wants the sanction of that illustrious experimentalist who first laid the foundation on which this aerial superstructure is reared.

* But leaving the fate of these gases to the impartial investigation of the scientific world, who can help deploring that of M. Lavoisier, and heaving a groan of execution against his hideous murderers! 'Vol. 1. p. 187.

Throughout all these comments, we have the same contempt of anglicism as in the translation. We have 'imperturbability' again, and 'demoralisation.' The slight to Varennes is always slyled the 'evasion from Paris.' We find that 'Turgot enacted the spy of the court of France;' that Maurepas 'gained the ambitioned ascendancy over the monarch;' and that by some other ministers, the 'reputation' of some old taxes 'was duly rebabilitated.' Then we hear of 'a mind of no very elevated texture,' and of 'the slight texture of moral courage.' Lewis is censured for having 'treated geometricians and metaphysicians with misprisson.' And we are made to pronounce, if we can, 'a new impulsion of patriotism,' 'civil disruptions,' 'lugubrious images of the suture,' and 'much irreverential demur respecting rights and privileges.'

Half of the first volume is occupied with letters addressed by Lewis, in the earliest years of his reign, to his different miniters; the best of these are to Malesherbes, on whose character he seem always to have reposed with unabated considence and affectionate admiration. This part of the correspondence throws some light on the successive changes of administration; in all of which, though the King was sometimes necessitated to yield, he displays an excellent judgment of public affairs, and appears to have been actuated by the purest love of his people. Such of these letters as were written to Malesherbes, are rendered more highly interesting, by giving us a view of objects placed, as it were, under the first light and dawn of the Revolution. We imade to feel the gradual brightening of that day, which has been overcast by so foul a storm. Even at that early period, with

with a singularity of sentiments no less honourable to his patriotal ism than to his sagacity, Lewis seems ready to share the hopes and the enthusulm of enlightened reformers, while he trembles with folicitude for the unknown consequences of precipitate innovation. From the 14th July 1789, and the inglorious emigration of princes and courtiers which immediately followed that memorable zera, we trace all the feelings of the King, as they varied from day to day, and as he has expressed them, with no common powers of pathos, to his relations who had deferted him, to the revolutionary leaders, and to his friend (he poffeffed but one) the aged and venerable Malesherbes. This journal of his protracted forrows closes with the letter in which he accepts the heroic offer of that friend to appear with him at the bar of the Convention. The editor has subjoined a few other letters, not found in the manuscript of the intended French publication, but confided to her (as she says) by indisputable authority; these, if genuine, prove that Breteuil conducted his negociations for foreign aid or mediation, under the fanction of the King. The other papers, added to this collection of letters, are—Instructions addressed by Lewis to the person whom he had intrusted with the Dauphin's education; detached maxims on miscellaneous topics, some original, some extracted; and notes, that were found in the handwriting of the King, on the margin of feveral important state papers. These last will be deemed valuable, not only as illustrative of his personal character, but because they are connected with the history of some great political transactions. The state papers, to which these remarks relate, are-Turgot's scheme of municipalities, the manifesto of the French court in the American war, and Necker's memoir on provincial administrations.

We shall now gratify our readers with a considerable number of extracts; beginning with the letters addressed, in the year 1776, to Malesherbes and Turgot. With respect to the first of these, it is proper to notice that the editor speaks of its having

been communicated to her by Malesherbes himself.

. A M. DE MALESHERBES.

Verfailles, 17. Avril, 1776.

fe n'ai pu vous exprimer affez dans notre dernier entretien, mon cher Malesherbes, tout le déplaisir que me causait votre résolution bien prononcée de vous démettre de votre ministère. Maintenant que j'ai réstéchi avec quelque maturité sur cet objet, je vais vous ouvrir mon cœur; et je transmets mes idées sur le papier, pour qu'elles ne s'échappent point de ma mémoire.

Entouré comme je le suis d'hommes qui ont intérêt à égarer mes principes, à empôcher que l'opinion publique ne parvienne jusqu'à moi, il est de la plus haute importance pour la prospérité de mon règne que

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mes peux de tems en tems le republif avec fatisfaction fur quelques figue de mon choix, que je puiffe appeler les amis de mon cœur, et que infavertiffem de mes erreurs, avant qu'elles ayent influé fur la deftinée de vingt quatre millions d'hommes.

Yous êtes, avec le fage de Maurepas, et l'intrépide Turgot, l'homme de mon royaume qui avez le plus de tières à ma confiance ; et il ne faut pas faire entendre à nos ennemis communs que vous êtes fair le point de la perdre lorsque vous ne l'avez jamais plus méritée.

Lorsque Maurepas m'eut presenté votre nom comme un de ceux qui étaient le plus faits pour donner du poids à mes projets de biensai-sance, j'étudiai en silence votre vie publique et privée; et je vis que je serais peut-être plus heureux de vous offrir une grande place, que

vous de la recevoir.

Ma cour des aides était, avant votre première préfidence, une compagnie afficz mal organifée, qui se laissait soudoyer par les financiers dont on lui avait donné la surveillance. Jamais un contrôleur général ne la trouvait en opposition, quand il lui présentait des édits bursaux odieux: Vous êtes venu, mon cher Malesherbes; vous avez purgé ce corps des membres qui le déshonoraient; et, d'après son institution pri-

mitive, il est dévenue l'asyle de l'indigent et de l'opprimé.

La nature vous avait donné une ame citoyenne; et vous l'avez transmise à votre cour des aides: du moins j'en juge par les remontrances vigoureuses que vous lui avez dictées, et que j'ai placées, dans ma bibliothéque choisie, entre les Catilinaires de Ciceron et les Philippiques de Demosthenes. Je ne suis pas encore bien sur qu'il soit utile de jetter des manimes si philosophiques au travers d'une constitution monarchique, que sent de mécontens ont intérêt à ébranler: mais vos remontrances respiraient le bien public; elles m'eclairaient sur des désordres que ma cour et mes ministres conspiraient à me cacher; et je ne les ai constidérées que sous ce point de vue. Alors, malgré quelques principes qui ne pouvaient avoir mon assentiment, j'ai applaudi intérieurement à votre courage, et j'ai senti que vous aviez des droits à ma reconstituissant.

Nos entrevues, où Maurepas était en tiers pour nous juger tous deux, ajouterent à mon estime; et je vous donnai le département de ma maison, vacant par la démission de la Vrillière. Vous balançates longetems à venir respirer, à ma cour, un air qui convenait peu à la touchante simplicité de vos mœurs passis Turgot vous sit entendre qu'il ne pour pas, saus vous, opérer un bien durable: il vous decida; et je l'en

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enimai d'avantage.

Vous avez commence vetre ministère avec une vigueur qui ne contentiait pas mes principes. On se plaignait des lettres de cachet dont votre prédécessent disposait au gré de ses favoirs; et vous avez refusé d'en faire usage. La Bastille regorgeait de prisonniers, qui, sprès plinieurs années de détention, ignoraient quelquesois leurs crimes; et au principal que des evez recons la liberté tous les hommes à qui on ne reprochait que d'appeir étallu à ces messions en favour, et tous les coupables que assient été trop punis.

Vous avez entrepris des reformes utiles dans ma maison militaire : mais bien des gens ont conçu des alarmes; je devais appréhender que la mécontentement n'entrainat des troubles pareils à ceux de la Ligue et de la Fronde; et álors j'ai été obligé de renvoyer à des tems plus heureux le moment si cher à mon cœur, où, bannissant une vaine pompe, je n'aurai plus d'autre maison que les hommes de bien, tels que vous, qui m'entourent, et, pour garde, les cœurs des Français.

' C'est dans cette circonstance orageuse, mon cher Malesterbes, que vous me demandez votre retraite! Non, je ne vous l'accorderai pas: vous etes trop nécessaire à mon service : et, quand vous aurez la cette lettre en entier, je connais affez votre ame sensible, pour croire que

vous cesserez de me le demander.

· D'ailleurs, ce n'est pas au moment que vous êtes obligé de cédet aux circonflances, qu'il convient que vous donniez votre démission. La cour vous croirait en disgrace; et ce mot, quand il s'agit d'un sujet aussi récommandable que vous, ne doit jamais m'échapper.

4 Je vous attends demain chez Maurepas. Comptez sur mon estime. Louis.

et fur mon amitié.

A N. TURGOT.

· Ce 15 Avril, 1776.

Votre administration bienfaisante, mon cher Turgot, vous fait honneur: elle obtient l'approbation de tous les Français. Vos vues grandes et sages, le bien que vous opérez, les services que vous me rendez, ne sauraient s'oublier: ils sont gravés dans ma mémoire, et encore plus dans mon cœur. Que cette lettre foit pour vous un rémoignage de la satisfaction de votre roi, et de votre ami. Continuez de faire le bonheur des Français; et vous serez celui d'un roi qui ne veut être que le père de ses sujets. J'ai lu votre mémoire : il est rempli de vues sages et utiles; mais je crains que ce ne soit la encore le reve d'un homme de bien. Nous le méditerons ensemble; et peut-être que par ce moyen nous pourrons réparer bien des maux, et amener d'utiles Louis, this changemens. Adieu.

A M. DE MALESHERBES.

. Verfailles, 2 Mai, 1716, A . Turgot, mon cher Malesherbes, ne convient plus à la place qu'il accupe: il est trop entier, même dans le bien qu'il croit faire. Le defpatifine, à ce que je vois, n'est bon à rien, dut-il forcer un grand pouple à Le parlement, la noblesse, Maurepas surtout, qui m'aime véritablement, demandent sa retraite; et je viens de la figuer. Je ne vois pas pourquoi cet acte de rigueur, nécessaire à la tranquillité publique. entraînerait votre démission ; vous avez les talens de Turgot, mais non l'aspérité de son caractère; vous êtes tolérant, sans être faible; et le bien que vous desesperez de faire aujourd'hui, vous avez la sagesse de le renvoger ou lendemain.

Reftez au ministère, mon cher Malesherbes. Votre franchise m'est nécessaire encore a et vous la devez à votie and, si vous ne la devez pas

à votre roi.

" A M. DE MALESHERRES.

Verfailles, 7 Mai, 1776.

Votre obstination m'afflige singulièrement, mon cher Malesherbes.
Sally ne quittait point Henry IV., quand ce prince avait besoin de ses sumières. Vous ètes, si vous me permettez de le dire, un peu égoïste dans votre vertu.

Enfin vous voulez votre retraite; et je vous l'accorde. Voyagez donc, puisque vous avez besoin de voir d'autres contrées que celle qui

vous regrette, et que vous pouviez rendre heureuse.

A votre retour, venez me voir, comme à l'ordinaire, et m'entretenir avec la meme intimité. Mon visage, à cette epoque, ne ser pas plus changé que mon cœur; et n'ayant que de l'estime l'un pour l'autre, nona n'aurons pas besoin de nous réconcilier. Louis.'

In these admirable letters, no eircumstance is more remarkable, than the accuracy with which the King appreciates the character of Turgot. The enlightened principles and profound wiews of that illustrious man, are acknowledged with unfeigned admiration; nor does Lewis appear to have been less qualified to comprehend their extent, than to differ the difficulties of their immediate accomplishment. Perfectly disposed to second his minister in all designs of attainable resorm, he was better aware of those practical maxims of innovation, which, while they seem to fetter the impatient benevolence of individuals, give steadiness and maturity to the real progress of political improvements. In this important art of accommodating abstract principles to such circumstances as cannot be controuled, - in the great legislative talent of compromising the perfection that is conceiveable, for the good which lies within our reach, the character of Turgot was unquestionably defective; and the regret which Lewis has exprefied on that account, was felt at the time by the most enlightened friends of liberty in Britain as well as in France, and, after a mournful confirmation from experience, is now still more keenly felt by fuch of their posterity as inherit that generous sentiment. In that number, notwithstanding very anxious pretenfions, the editor of this publication can scarcely be classed. mong the remarks on these letters, we have indeed some tedious ranting about Turgot; but his real merit, she has evidently no capacity to discriminate. It is entertaining enough to observe this unqualified panegyrift of the Intendant of Limoges, when the has occasion to mention the murder of Berthier, profess her implicit belief is the witchcraft of forestalling and regrating.

Another letter, written to Maletherbes almost upon the eve of the Revolution, is very curious. It displays the conscientious embarrassment of the King, between his speculative conviction the utility of a free preis, and his alarm at the violent sever which he saw spreading by irrelishible contagion among his people.

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Unprepared for political discussion by the habits of gradually disfused knowledge, that people had been exposed suddenly to the assault of enthusiastic and indefatigable demagogues, who, for the attainment of a noble end, scrupled not to instance all the violent and licentious passions of the multitude. The prophetic touches, in which Lewis anticipates the disasters that awaited him and his beloved France, are rendered more affecting by the confession, that there had been a period in his own life when his candid mind was unable to withstand the seductive speculations of Diderot and Rousseau.

A M. DE MALESHERBES.

* 13. Dec. 1786.

1'aime et i'estime les hommes, mon cher Malesherbes, qui, par des ouvrages utiles, prouvent qu'ils font un sage emploi de leurs lumières : mais je n'encouragerai jamais, par aucun bienfait particulier, les productions qui tendent à la démoralisation générale. Voltaire, Rousseau, Diderot, et leurs pareils, qui un inflant ont obtenu mon admiration, que i'ai su priser depuis, ont perverti la jeunesse qui lit avec ivresse, et la classe la plus nombreuse des hommes qui lisent sans restexion. Sans doute, mon cher Malesherbes, la liberté de la presse agrandit la sphère des connaissances humaines. Sans doute il est à désirer que les gens de lettres puissent manifester leurs pensées sans licenciement d'une censure quelconque: mais les hommes sont toujours si au delà du point où la sagesse devrait les arreter, qu'il faut non seulement une police sévère pour les kivres, mais encore une surveillance active envers ceux qui sont chargés de les examiner, pour que les mauvais livres ayent le moins de publicité possible. le sais, toute inquisition est odieuse: mais il faut un frein à la licence : car, sans ce moyen, la réligion et les mœurs perdraient bientot de leur pouvoir, et la puissance royale de ce respect dont elle doit etre toujours environnée. Nos philosophes modernes n'ont exalté les bienfaits de la liberté, que pour jetter avec plus d'adresse dans les esprits des semespes de rébellion. Prenons y garde : nous aurens peut-être un jour à nous reprocher un peu trop d'indulgence pour les philosophes, et pour leurs opnions. Je crains qu'ils ne séduisent la jeunesse, et qu'ils ne prépasent bien des troubles à cette génération qui les protège. Les remontrances du clergé sont en partie sondées: je ne puis qu'applaudir à la prévoyance. Vous avez promis en mon nom, dans l'assemblée du clergé, de poursuivre les mauvais livres, les livres impies. Nous tiendrons noure promesse, parceque la philosophie trop audacieuse du siècle a une arrière pensée, qu'elle corrompt la jeunesse, et tend à tout troubler, et à tout diviler.

We shall introduce the two following letters, without any particular explanation. They are deeply affecting, and raise a variety of emotions. But we are disarmed by the spectacle, so near us, of ruined greatness; and when our country has been chosen as the last refuge of missortune, we will not violate the most facred of the laws of hospitality.

· Au Conte d'Artois.

7. Septembre, 1789. M MON FRERE Vous vous plaignez; et votre lettre, où le respect et l'amour fraternel guident votre plume, contient des reproches que vous croyez fon-Vous parlez de courage, de resistance aux projets des factieux, de volonté.... Mon frère, vous n'étes pas roi! Le ciel, en me plaçant fur le trône, m'a donné un cœur fensible, les fentimens d'un bon père. Tous les Français font mes enfans; je suis le père commun de la grande famille confiée à mes foins. L'ingratitude, la haine, arment contre moi : mais les yeux font obscurcis; les esprits sont egarés; la tourmente revolutionnaire a troublé toutes les tôtes. Le peuple croit s'intereffer à sa propre cause; et c'est moi seul que j'aurais pu desendre. Je pourrais donner le fignal du combat : mais quel combat horrible! et quelle victoire plus horrible encore! Pouvez-vous croire que j'eusse triomphé, au moment où tous les ordres de l'etat se reunissaient, où tout ce peuple s'armait contre moi, où toute l'armée oubliait ses sermens, l'honneur, et fon roi? J'aurais donné, il est vrai, le fignal du caruage; et des milliers de Français auraient été immolés. Mais vous direz peut-etre, le peuple a triomphé; il vous a prouvé par ses excès que ses sentimens n'etaient pas si genereux, qu'il osait abuser de la victoire, et poignarder son ennemi vaincu.—Ah! ne comptez-vous pour rien le calme d'une bonne conscience? J'ai fait mon devoir; at, tandis que l'assassin est dechiré par les remords, je puis dire hautement, je ne svis pas responsable du sang versé; je n'ai point ordonné le meurtre; j'ai sauvé des Français; Pai fauvé ma famille, mes amis, tout mon peuple; j'ai la conscience intime d'avoir fait le bien : mes ennemis ont eu recours aux forfaits. Quel est celui d'entre nous dont le sort est le plus digne d'envie? Ceffez, mon frère, cessez de m'accuser : le tems, les circonstances, et mille causes qu'il serait trop long de detailler, ont fait les malheurs de la France. Il est trop cruel de me les reprocher. C'est se joindre alors à mes ennemis, et dechirer ce cœur paternel. Mon frère, je me suis sacrissé pour mon peuple: soyez persuadé que, ce premier devoir rempli, je saurai me-sacrifier pour vous et pour les Français qui vous ont suivi. Déjà votre éloignement excite des murmures; déjà les factieux se promettent bien. de nous accuser, et de tirer parti de cette demarche, qu'ils appellent en ce moment une fuite, une conspiration, un attentat. Ces idées se propagent; elles produiront de funestes resultats, si la tranquillité n'est point retablie; si votre rappel devient impossible; si je neglige l'occasion favorable de rappeler en France les Français exilés volontairement, et qui de l'ent s'empresser d'obéir au vœu que je me ferai alors un devoir de manifester. Adieu, mon frère! n'oubliez pas que je vous aime, et que je Louis.' m'occupe de yous.

' A M. LE COMTE D'ARTOIS.

Mon Frere,

Les gentilshommes qui vous ont suivi, et qui pour nous ont abanlinsé leur patrie, se plaignent amèrement. Ils ont tout qui pour
l'honneur, pour desendre le trone et l'autel. (Il ne s'agit pas de savoir
si vous et eux avez sagement agi : souvent je vous ai attrissé, en vous
portant

portant mes plaintes à ce sujet). Leur sacrifice est d'autant plus méritoire, que, delaissés, exilés, pour ainsi dire, dans le fonds des provinces, les bienfaits de la cour venaient rarement les chercher, et que leur pas trimoine n'en était pas moins confacré à la défense de l'état. Les gentilshommes se plaignent qu'ils sont maltraités par la haute noblesse, qui daigne à peine les regarder, et ne veut voir en eux que des inférieurs. Cependant le dévouement de cette classe de la noblesse me parâit digne d'éloges. Quel fut son intérêt en embrassant la cause des princes exilés? Il n'en fut point pour elle; et cependant elle prend les armes, se prépare au combat, tandisque ceux qui seignent de les mépriser semblent n'avoir fui que pour se soustraire au danger. Mon frère, avez des égards pour ces braves Français, qui se sont dévoués; et ne souffrez pas qu'ils soient avilis. Dites leur, que toute ma noblesse m'est chère, et que je porte tous les Français dans mon cœur. Ah! je souffre trop de votre absence, pour ne pas gémir de cet exil qui me laisse à la merci de mes ennemis, qui me fait envilager, pour ma noblesse et les princes de mon fang, les plus grands malheurs. Oh! dites souvent aux Français, malgré mon vœu, malgré mes ordres, reunis sur les bords du Rhin, que j'ai perdu toute esperance; qu'il m'est impossible de terraffer l'hydre des discordes, de réconcilier les esprits, de ramener la paix intérieure; mais que, dans les grands dangers qui m'environnent, il me refle encore une refource, celle de favoir mourir.

It is but a few days prior to the date of this last letter, that we find Lewis addressing a paper of instructions to the tutor of his fon. On the most important points of education, he appears to have reflected with justness and good sense; and he expresses his fuggestions with all the tenderness of paternal solicitude. But this paper derives its chief interest from the contrast which it presents between the benevolent and elevated feelings of the writer, and his cruel fituation at the time it was composed. Such fentiments would command applause, were they to proceed from a Sovereign in the height of his popularity, elated with profperous fortune, and cherished by the admiration of his subjects. But the unhappy Lewis was loudly and favagely calumniated by the people, to whose good he had devoted every wish; and it was while furrounded with unrelenting fanatics or fanguinary affaffins, struggling to divide the spoils of his hereditary power, that he was anxiously occupied to impress upon his fon's heart the care of this very people.

Parlez lui fouvent de la gloire de ses ayeux; et offrez lui, pour modèle de conduite, Louis IX, prince réligieux, avec des mœurs et de la vérité; Louis XII, qui ne veut point punir les conjurés du duc d'Orléans, et qui reçoit des Français le titre de père du peuple; du grand Henri, qui nouvrit la ville de Paris qui l'outrage, et lui sait la guerre; de Louis XIV, non lorsqu'il donne des loix à l'Europe, mais lorsqu'il pacifie l'univers, et qu'il est le protecteur des talens, des sciences, et des beaux arts.'

Souvenez-vous de lui enseigner que c'est lorsqu'on peut tout, qu'il suit être très sobre de son autorité. Les loix sont les colonnes du trône: si on les viole, les peuples se croient déliés de leurs engagemens. Les guerres civiles nous ont appris que c'est presque toujours ceux qui gouvernent, qui par leurs fautes ont fait repandre le sang humain : le roi juste est le bon roi.

 Que l'adulation n'annonce jamais les caprices de votre élève : mon fils n'apprendra que trop tôt qu'il sera libre un jour de fatisfaire les siens.

Exaltez à ses yeux les vertus qui font les bons rois; et que vos lecons soient proportionnées à son intelligence. Helas! il ne sera que trop tenté d'imiter un jour ceux de ses ancêtres qui ne surent recommandables que par des exploits guerriers.

Apprenez lui avec Fénélon que les princes pacifiques sont les seuls dont les peuples conservent un réligieux souvenir. Le premier devoir d'un prince est de rendre son peuple heureux: s'il sait être roi, il saura

toujours bien défendre ce peuple et sa couronne.

Surely, these sentiments will, at no remote period, attach the fympathy of all mankind to the fortunes and character of Lewis the Sixteenth. In the lift of princes, there is not another example of fuch genuine benevolence, of patriotism so warm and so pure. Many fovereigns have greatly furpassed him in political capacity, some have displayed more comprehensive and profound views of legislative reform; but in passionate affection for his Subjects, he had no superior, no equal. To be the father of all the French, was a principle never absent from his thoughts; it was the predominant feeling of his life; which, at the age of twenty-two, dictated the invitation of Malesherbes to his cabinet; and at the age of thirty-nine, upon the scaffold, inspired the forgiveness of his murderers. He had diligently read the history of his country, and felt a natural veneration for that long line of ancestors, in which he could number more than one patriot king; but it is to the virtues of Henry that we find him most frequently recurring with generous emotion; to ' the great Henry, who gave bread to Paris while it treated him with outrage; and to the good Sully, who felt (as the king has expressed it in a letter to the Duc de Charon) 'l'amour chevaleresque pour tous les Francais.' During convultions, in which, almost from the first, defigns were avowed against his crown, and which from the very first were stained by assassination and massacre, the idea of shedding the blood of Frenchmen was regarded by Lewis as an impious parriede; and we see him in these letters rejecting, with indignation and horror, all the proposals that were suggested by his courtiers and the princes of his family, for re-establishing royal authority by some desperate effort of power. In the happier days which preceded the revolution, he anxiously cherished a spirit of tranquillity tranquillity in the foreign relations of his kingdom; for the exceptions which his reign offers to that system, were a sacrifice, to the maxims of his ministers and to public opinion, of his own love of peace; the most important, perhaps, of all the virtues that a king can possess,—certainly the most important under a constitutional monarchy, fince an opposite disposition is so difficult to be restrained. But his love of the people shone forth most eminently in the disposition which he manifested, throughout his reign, to co-operate with difinterested reformers, in the limitation of his own prerogative, and the enlargement of popular rights. Lewis the Sixteenth was a revolutionist; and his name will be added by posterity to that memorable band of enthusiasts, who built their hope upon foundations unalterably folid, but attempted to realize the superstructure with incautious haste; who, looking forward upon the prospects of the human race, saw, without illusion, what is disclosed by the light of philosophy, and is established in the laws of nature; but, with a benevolence too fanguine, grasped at possession prematurely, forgetting that the arrangements of nature are developed and perfected imperceptibly with the laple of ages.

At a time when some of these set no limits to their zeal, and had unknowingly affociated themselves with anarchists ready for every crime, Lewis was-calumniated as infincere in his professions of attachment to national freedom. But every person, by whom the events of that period have been candidly confidered, has long ago acknowledged the falschood, and even the absurdity of that accusation; though this Miss Williams still, with cold-hearted petulance, strives to urge it. Her understanding must be as impenetrable by the force of evidence and reason, as she seems devoid of all sympathy or reverence for afflicted virtue. She can force a fneer of derifion, while the treads upon the ashes of Lewis. This charge of infincerity is belied by every feature of his character, and by all the details of his conduct: throughout his whole career, and in the melancholy scenes that closed his life, he preferved an entire confishency with the measures he had pursued while in full possession of power. The real truth is, that the few deviations of his behaviour from what was clamorously demanded by the leaders of the mob, are to be ascribed to the bad faith which was so manifest on their side; who had procured his acceptance of a constitution which they never intended to retain, and were wholly occupied with schemes of fresh innovation and farther destruction. It would have been dishonourable to the character of Lewis as a king, if he had made no efforts, how unavailing foever, to restore tranquillity; and to his feelings as a man, if, in such circumstances of peril and of horror, he had made no VOL. III. No. 5.

effort for the personal safety of his family. He would have been more than man, if he had upheld an unshaken systematic constancy, when, with no friend to counsel or to cheer him, surmounded by treacherous advisers and implacable enemies, he was engaged in a competition for the favour of a tanatic mob, against men who were restrained by no principle and by no system.

It is possible, that the monarch might have averted some of those miseries which overwhelmed himself and his people, had he been endowed with more commanding talents for the conduct of political affairs. Lewis was unqualified for enterprise; he wanted boldness; he was devoid of resources. But to describe him as unequal to the difficulties in which he was involved, is only to deny him the praise of transcendent genius. In the calm speculative exercise of his understanding upon the manners and transactions of mankind, he has evinced no inconfiderable powers of penetration. He was not often deceived in the characters of the men who acted under his eye; and from the affiduous fludy of history, he had acquired habits of practical and candid judge-Nor should it be overlooked, in estimating his unfitness for the tremendous fituation in which he was placed, that the revolution of France does not display an inflance of a fingle character, in which a profound capacity, or even any remarkable degree of talent, for the direction of affairs, may be feen in union with a pure and magnanimous patriotifin. The greatest blen.ish in the King's understanding, was his implicit superstition: yet it must be acknowledged, that even this was quite untainted, by intolerance, while it was in harmony with all the other weaknesses, and all the 'paffive graces,' of his mack sufceptible temper.

We shall now resume our extracts. The following letter was written by Lewis, to the brother who most unarly resembled him,

a few days after his return from Varennes.

A MONSIEUR.

11 faut donc encore que mon malheur pèle sur vous, et que vous foyez une nouvelle victime de la fatalite qui me poursuit. Lorsque je cherchais un asyle, le repos, l'honneur, et des Français, je n'ai trouvé sur mes pas que la trahison, un abandon cruel, l'audace du crime, et la fatalité des circonstances. Plus d'espoir de ramener les Français; plus de justification à espérer, de liberté à obtenir, de bien à faire, de plein gré, de mon propre mouvement. Il y a quelques jours, que j'étais un vain fantôme, de roi, le chef impuissant d'un peuple tyran de son roi, esclave de ses oppresseurs; aujourd'hui je partage ses sers; je suis prisonnier dans mon palais; je n'ai pas mène le droit de mer plaindre. Séparé de ma samille entière, mon éponse, ma sœur, mes ensans, gémissent loin de moi : et vous, mon fière, par le plus noble dévouement your vous êtes condamné à l'exil; vous voila dans les lieux où gémissent

tant de victimes que l'honneur appelait sur les bords du Rhin, mais que mon amour pour eux, mes ordres, ou plutôt mes pressantes invitations, rappelaient dans le sein de leur triste patrier. Ils sont malheureux, dites vous? oh! dites leur que Louis, que seur roi, que seur père, que leur ami, est plus malheureux encore. Cette suite, qui m'était si nécessaire, qui devait peut-être faire mon bonheur et celui du peuple, sera le motif d'une accusation terrible. Je suis menaeé: j'entends les cris de la haine. On parle de m'interroger! Non, jamais! tout le tems qu'il me sera permis de me croire roi de France, j'éviterai tout ce qui tendrait à m'avilir. Oh! mon frère, espérons un plus doux avenir: le Français aimait ses rois: qu'ai-je donc sait pour être hai, moi qui ses ai toujours portés dans mon œur? Si j'avais été un Néton, un Tibère.....Qu'un doux espoir nous reste encore. Puisse la première lettre que je vous adresserai, vous apprendre que mon sort est changé.

Louis.

The aged aunts of the King had taken refuge in Italy, from the diffresses of the revolution. Several letters are addressed to them, full of assection. We cannot deny our readers the pleasure of perusing one of them.

4 A MESDAMES.

• 25. Mars, 1792.

Nous avons supporté avec peine, mes chères tantes, votre éloignement; mais il était nécessaire à votre tranquillité, et à votre bonheur : il n'en a pas moins sallu, pour me priver des consolations que j'étais sûr de trouver dans votre tendresse pour moi. Fixées dans la capitale du monde Chrétien, vous jouissez, dans tonte leur pureté, des biensaits de la religion: essere, pour moi, au Roi des rois vos ardentes prières, que le Ciel irrité s'appaise, qu'il rende à la France ses beaux jours, aux Français la consiance qu'ils me doivent, et que du sein des discordes le bonheur renaisse. Alors je dirai, J'ai assez vécu.

Vos dernières lettres me sont parvenues dix jours plus tard qu'a l'ordinaire : c'est une suite du désordre qui existe dans les postes. Lorsque tout est désorganisé, les correspondances ne sont pas plus sûres que

la marche des événemens.

Mes enfans sont languissans: la reine-trouve la permanence de sa fanté dans son ame, et moi dans ma résignation aux décrets de la Providence.

'Adieu, mes chères tantes! La distance qui nous sépare n'a aucun droit sur ma tendre affection pour vous.

'Louis.'

This breathes all the feelings of domestic tenderness. The following is in a different tone, and expresses, with equal force, the firmness of personal dignity. It appears to have been suggested by a proposal from the Girondin administration, for some decisive measures against that party who still professed a regard to the monarchical, as well as to the other branches of the new constitution.

" AU MINISTRE ROLAND.

· 21. Mai, 1792.

On peut m'étonner; mais on ne peut m'inspirer aucune crainte, et jameis maltrifer mon ame par ce moyen. Je fais que le parti dont vous me vantez le patriotisme, la puissance, et la grande influence, est capable de tout ofer: mais je fais aussi que le parti qui lui est opposé est plus nombreux, moins exalté; il se compose d'une majorité de gens de bien, qui doivent enfin montrer de l'audace, et user du courage de la vertu. Je sais que je puis succomber; que les méchans sont capables de tout, que le peuple égaré croit à leur patriotisme, à leur défintéressement : mais, monfient, j'ose prédire que le triomphe de ces gens là ne sera pas de longue durée. Si je succombe, ils voudront partager mes dépouilles. Ce partage amenera de funcites divisions : les gens de bien pourront alors respirer un moment : c'est alors qu'ils retrouveront leur courage : lear cause est juste : ils triompheront ; les Franç ils seront vengés. Un jour peut-être ils daigneront justifier ma mémoire. Monsieur, je ne verrai point ces gens la ; et jamais je ne pourrai transiger avec eux. Voilà ma résolution; elle est immuable. Louis.

In the next letter, which we shall quote, Lewis describes the circumstances of a public outrage to which he was subjected.

" A MONSIEUR.

17. Juillet, 1792.

'Il faut, mon frère, vous donner une idée d'une scène bien scandaleuse. Je vous ai parlé de certaines propositions qui m'ont été faites
par deux partis, qui souvent votent ensemble aux Jacobins. Ces hommes, qui se détessent cordialement, qui déjà paraissent se méser les uns
des autres, et qui finiront par se faire une guerre à outrance, voudroient,
je ne sais pas trop pourquoi, me ranger sous leurs bannières. Insensible
à leurs promesses, à leurs menaces, sourd à leurs invitations, j'ai constamment resusé de servir leurs projets. Ils ont voulu me faire peur.
Une députation de l'assemblée m'avait été envoyée pour des objets importans. On a réussi à composer cette députation d'hommes exaltés,
de ces têtes mal organisées qui brusquent les convenances, et qui se
croient les égaux des rois, et les êtres libres par excellence, parce qu'ils
ont de forts poumons, qu'ils reçurent en partage le don des injures, et
qu'ils ne savent jamais respecter le malheur.

La députation est introduite. Un certain Gensoné portait la parole. Il parle bien, même avec quelque modération. Cependant des tournures singulières, des expressions hazardées, désignment son discours. J'ai repondu: j'ai fait parler le cœur à la place de l'esprit: j'ai oublié que

l'étais foi ; et je me suis exprimé avec franchise.

La reine était présente. Un jeune homme à tête ardente, l'air très etburdi, a prisala parole : il a gourmandé la reine. C'est vous, Madame, a-t-il dit, qui perdez le roi : ce sont vos conseils : vous n'êtes entourée que de royalistes ; et vous eloignez les patriotes. La reine a repont avec dignité : il a hausé les épaules. Je voulais appaiser le gourse de ce censeur indiscret. Il a repris la parole avec effronteria,

et a daigné m'assurer que j'étois un brave homme, mais induit en erreur par des traîtres, des ennemis de la patrie. Que repondre, pour désabuser cet homme? Garder le silence, adresser la parole à l'orateur de la députation, voilà ma conduite. J'ai apperçu que plusieurs des députés prisens partageaient le délire, appelloient cela du courage, et applaudissaient ce jeune audacieux, que l'on m'assure se nommer M....n de Th.....e.

We approach now those horrors, which, in the history of man, civilized or savage, have never been surpassed. During the night that succeeded the 10th of August, the Royal family were thrust into a wretched apartment, adjoining to the hall of the Assembly. Next morning, the King addressed this note to the President.

A M. VERGNIAUD

Monfieur le Prefident, 11. Août, 1792, 10 Heures du Matin.

Dans le tumulte d'une séance aussi orageuse, si dechirante pour ma sensibilité, si outrageante pour la dignité de la représentation nationale, je pense que le corps législatif s'occupera des moyens de calmer l'effervelcence populaire. Je ne demande point justice du grand attentat qui m'a forcé de venir avec ma famille me placer avec constance sous l'égide des délegués du peuple. Il y aurait trop de coupables à punir pour penser qu'un grand exemple intimidât les pervers. Que le mal qui est soit oublié; que la pate renasse des cendres du palais de mes pères! Je ne croirai pas encore que le sacrifice égale la douleur prosonde que je ressens de la violation des loix, et de la subversion de l'ordre public.

Les travaux de l'assemblée exigent qu'on me choisisse un asse ou je puisse trouver la sûreté de ma famille, et jouir moi-même d'un bien que

l'universalité des Français attendent de votre solicitude.

· Louis,

On the same day, he wrote to his brother.

" A MONSIEUR.

11. Août, 1792. Dans le sein de l'Assemblée Nationale.

Le sang et le seu ont tour-à-tour signalé l'affreuse journée d'hier, mon cher frère. Contraint de quitter mon palais avec ma famille, de chercher un asile au milieu de mes plus cruels ennemis, c'est sous leurs yeux même que je vous trace, peut-être pour la dermère sois, mon asseruse position. François premier, dans une circonstance périlleuse, écrivit, s' tout est perdu, hors l'honneur: moi, je n'ai plus d'autre espoir que dans la justice de Dieu, dans la pureté des intentions biensaisantes que je n'ai jamais cessé d'avoir pour les Français. Si je sue combe,

combe, comme tout porte à le croire, souvenez-vous d'imiter Henry IV. pendant le siège de Paris, et Louis XII. lersqu'il monta sur le trône.

Adieu! mon cœur est oppressé: tout ce que je vois, tout ce que j'entends, est fait pour m'assiger. J'ignore quand et comment je pourrai désormais vous écrire.

Louis.'

Two days after; just as he was about to be configned to the custody of Santerre in the Temple, he addressed another letter to this brother, which he intrusted, concealed in a piece of bread, to a friend who did not quit him till the last moment. As he delivered it into his hands, he is said to have shed a tear: 'c'est un éternal adieu' (he said) 'que j'adresse à mon frère.' But the person who undertook this service, was arressed upon the frontiers; and the paper was deposited among the archives of the commune, where it remained till after the destruction of Robespierre.

· Paris, ce 12. Août, 1792, 7 heures du matin.

Mon frère, je ne suis plus roi. Le cri public vous sera connaître la plus cruelle catastrophe ... Je suis le plus infortuné des époux et des pères!... Je suis victime de ma bonté, de la crainte, de l'espérance. C'est un mystère inconcevable d'iniquité. On m'a tout ravi; on a massacré mes sidèles sujets. On m'a entraîné par ruse loin de mon palais; et l'on m'accuse! Me voilà captis; on me traîne en prison. La reine, mes ensans, Madame Elisabeth, partagent mon triste sort. Je n'en puis plus dontés! je suis un objet odieux aux yeux des Français prévenus ... Voila le coup le plus cruel à supporter. Mon frère, biensôt je ne sersii plus. Songez à venger ma mémoire, en publiant combien j'aimais ce peuple ingrat. Un jour rappelez lui ses torts, et dites lui que je lui-ai pardonné. Adieu, mon frère, pour la dernière sois!

None of our readers can have forgotten the letter, in which Malesherbes, from his retirement, and at the age of eighty, intimated to the President of the Convention, that, having been twice called to the council of him who was then his Master, at a time when the situation was cavied by all, he felt himself bound to offer the same service, now that it was regarded as dangerous. Lewis wrote to Malesherbes, from his prison.

A M. DE MALESHERBES.

Du Temple.

Je n'ai point de termes, monscher Malesherbes, pour vous exprimer ma sensibilité pour votre sublime dévouement. Vous avez été au devant de mes vouex : votre main octogénaire s'est étendue vers moi pour me repousser de l'échasaud ; et, si j'avais encore mon trône, je devrais le partiger avec vous, pour me rendre digne de la moitié qui m'en resterait. Mais je n'ai que des chaines, que vous rendez plus légèrés en les sous renvoye au ciel et à votre propre cœur, pour vous tenir lieu de recompense.

Je ne me fais pas illusion sur mon sort. Les ingrats qui m'ont de troné ne s'arrêteront pas au milieu de leur carrière: ils auraient trop à rougir de voir sans cesse sous leurs yeux leur victime. Je subirai le sort de Charles Premier; et mon sang coulera, pour me punir de n'en avoir

jamais verlé.

'Mais ne serait-il pas possible d'ennoblir mes derniers memens? L'assemble e nationale renserme dans son sein les dévastateurs de ma monarchie, mes dénonciateurs, mes juges, et probablement mes bourreaux i On n'écluire pas de pareils hommes; on ne les rend pas justes; on peut encore mous les attendrir : ne vaudrait-t-il pas mieux mettre quelque ners dans ma d'sense, dont la faiblesse même ne me sauvera pas? J'imagine qu'il faudrait l'adresser, non à la convention, mais à la France entière, qui jugerait mes juges, et me rendrait, dans le cœur de mes peuples, une place que je n'ai jamais mérité de perdre. Alors mon rôle à moi se hornerait a ne point reconnaître la compétence du tribunal où là sorce me serait comparaître. Je garderais un silence plein de dignité; et, en me condamnant, les hommes qui se disent mes juges, ne seraient plus que mes assassins.

Au reîte, vous êtes, mon cher Malesherbes, ainsi que Tronchet qui partage votre dévouement, plus éclairé que moi : pesez dans votre sagesse mes raisons et les votres : je souscris aveuglément à tout ce que vous ferez. Si vous assurez cette vie, je la conserverai pour vous faire ressouvenir de votre biensait : si ou nous la ravit, nous nous retrouverons avec

plus de charmes encore au féjour de l'immortalité.

' Signé, Louis;'

Will it be credited, that a woman—once a woman of England, could be roused to no stronger language, by such a catastrophe of such a man, than to 'lament that his country was not spared the offence of his death?' We did once intend to have irritated and disgusted our readers with some specimens of her remarks on the letters that we have extracted. But we respect their feelings. At the present moment, we willingly spare such a violence to our own. When the tragic spectacle closes, it is most pleasing to leave the scene altogether; to repose upon our forrow, undisturbed by coarser objects; and indulge the best emotions of nature, unshocked by any recollection of the prejudiced and unseeling portion of mankind.

ART. XVIII. Remarks on Currency and Commerce. By John Wheatley, Esquire. 8vo. pp. 262. London. Cadell & Davies. 1803.

This work, Mr Wheatley informs us, was undertaken to elucidate the principles of national wealth; which, notwith-standing the Inquiry of Dr Smith, are still, it seems, very impersectly understood. We may add, that it appears to have originated in none of those party motives, or other temporary riews.

views, which give rife to the greater number of pamphlets published upon topics connected with national policy. The conduct of the work, as well as its subject, is purely speculative; and it is delivered to the public, we are told, rather as the prospectus

of a larger book, than as a separate treatise.

Such being the design of this tract, and so high its pretenfions, notwithstanding that distidence which has dictated the hint about a future work, our attention is naturally directed to examine whether any thing is performed by Mr Wheatley to justify his hopes of effecting those reforms in political economy which the celebrated writings of Smith, Hume, and the French economists, have failed to accomplish. venture to predict, that after our readers shall have considered the abstract which we purpose to submit, they will participate in our disappointment, and agree with us in awarding to Mr Wheatley's errors and inaccuracies alone the praise of originality. The general character of the work, indeed, is eafily given. Our author has learned the language, and treasured up the refults of those investigations which, during the last fifty years, have effected fo great an improvement in political science; but he has failed in forming to himself distinct views of the principles upon which these new and enlightened doctrines depend, and has not always followed out the line that separates them from the errors to which they succeeded. He has conceived, that, in order to recommend these improvements to practical statesmen, nothing more than a new description of them is required; and, for the purpose of varying the light in which they should be viewed, he has partially involved them in obscurity. His work is thus a mixture of unquestionable conclusions, and false or doubtful demonstrations. In so far as it exposes those errors of the mercantile system, which were demonstrated by Smith, its reasoning is irresistible; but the other departments embrace conclusions as full of error as any which that system presents. The manner, too, in which the most received doctrines are delivered, favours of a confidence in their originality often bordering upon the ludicrous, and leads us constantly to imagine that Mr Wheatley forgets the very existence of the works from whence he derived his instruction. attacks the errors of the mercantile theory, as if no one but himself had ever doubted of its truth; and proposes the very printples upon which all well informed men have long ago rejected it, in the same language of discovery that might have been used had no such writers as Hume or Smith ever existed. while the introduction of each succeeding subject pros some novelty, and the deception is kept up by the occurec of tépies not immediately perceived to be erroneous, a little



little attention is always sufficient to develope the characteristicafeature of the work—a mixture of unfounded with unquestion able tenets; of errors, which are never likely to gain ground, with propositions which in the present state of the science may be reckoned truisms; of doctrines true, but old, with reasonings in their support, as erroneous as they are novel and unnecessary. The meritorious parts of this tract we shall with pleasure specify as we proceed in such an examination of it as may be necessary to justify these general strictures, and to bring the subject before our readers.

The First chapter contains an exposition of the sundamental principles upon which our author grounds his objections to the leading doctrines of the mercantile theory. This theory, he remarks, has not been attacked with sufficient success by Dr Smith, in consequence of his omitting a minute examination of the properties of money. To investigate these, is Mr Wheatley's primary object; and he describes them in three propositions—that an increase of specie is an increase of currency, and not of capital; that an increase of currency is not an increase of wealth to a nation insulated from all commercial intercourse with foreign states; and that no country can ever accumulate a greater currency than will enable it to circulate its commodities, as nearly as possible, at par with other nations, unless the freedom of mutual intercourse be obstructed by physical impediments, or by legal restrictions.

Our readers will immediately perceive, that Mr Wheatley has gone a great deal farther than was necessary, in order to refute the fundamental propositions of the mercantile theory. This theory is not erroneous because it inculcates the utility of money, but because it prescribes an exclusive preserence for money. In order to refute fuch a doctrine, it was not necessary to prove that money forms no part of national wealth; but only that money, like every other commodity, will be possessed by a people in proportion to their effective demand for it—their occasions for using it, and their ability to purchase it. Mr Wheatley's third proposition, therefore, if accurately demonstrated, was quite sufficient to overthrow the tenets of these who maintain that the commercial policy of a nation should be directed to the multiplication of the precious metals, rather than of any other commodity. This demonstration is made up, partly of general remarks on the origin of that erroneous idea, almost copied from the Wealth of Nations, (vol. I. p. 431. & vol. II. p. 139.), and partly of the arguments used by Mr Hume, in his celebrated essay on the Balance of Trade.

But to deny that an increase of specie is an increase of the national capital, was not more unnecessary than incorrect.

Money

Money is a part of the capital of every nation. It is that part which is required for the distribution of the other portions. The precious metals have a twofold use. They either supply the materials of certain valuable manufactures, or they are coined and employed as a medium of exchange. A greater quantity of bullion will never be accumulated in any country than the demands of the inhabitants of that country require, for their utenfils and ornaments on the one hand, and for performing their exchanges on the other. If a greater quantity is turned towards the plate manufacture, and there is a deficiency of coin, a portion of the plate will be melted, and coined. If there is a superabundance of coin, and a demand for plate, the coin will be melted and manufactured; and if there is both more money and more place than the trade and the luxury of the fociety requires, bullion will be exported to purchase something that is in request. But this is exactly the predicament in which every other commodity is placed. If there is more unground corn in any country than the full enance of the cattle requires, and the inhabitants are in want of bread, part of the grain will be ground to support them. If there is a superahundance of flour or meal, and a want of fodder, the cattle will be fed with the overplus of the ground corn; and if both the grain and fodder are more than fufficient in quantity, the overplus will be exported, to buy fuch commodities as the fociety may require. The increase of bullion, like the increase of grain, is an augmeneation of capital. Both are valuable commodities. The one is necessary for sublishence, and is belides subservient to the grati-Scation of certain luxurious appetites; the other is required for traffic, and procures, also, certain luxuries of a peculiar kind. Were the wealth of a nation fuddenly increased, either by the acquisition of grain or of bullion, and were it at the same time cut off from all connexion with other states, an extravagant use would be occasioned, in the one case, of provisions; in the other, of ornaments and plate: and if the acquifition were fo great that the nation had more than it could in any way make use of, a portion would be entirely loft, in the one case, of grain, which would be left to rot, in the other, of money, which would circulate, or be manufactured, in unnecessary profusion. abundance of grain would, indeed, produce much better effects. than that of bullion, because it forms the chief necessary of life; but the superabundance of both would be equally useless, because the furplus of a necessary article is as useless as the surplus of a luxury or convenience.

It is evidently absurd, then, to fay, that specie does not form a part of the national capital. It forms a most valuable portion.

of the wealth of every commercial country, of every society ist which exchanges are carried on, and luxuries esteemed. The increase of specie, too, is in itself clearly the increase of wealth, while the number of exchanges, or the tastes of mankind, require it; and if the increase outstrips the demand arising from these causes, still the overplus is, in every sense of the word, capital; because it may be easily exchanged for the commodities of other nations. The error of the mercantile theory consists in supposing that this part of national wealth is more valuable than the other parts, and that its augmentation deserves the peculiar care of government. It would have been just as great an error to promote, by arbitrary regulations, the importation of more grain or wool than the wants of the people require. A superfluity either of metals, or subsistence, or clothing, is equally useless.

But it is not a little fingular, that Mr Wheatley should admit the case of gold and filver mines to form an exception to his general position. Money, he observes, is a medium of exchange, for which an equivalent has been given, and no more than an equivalent can be received. It can therefore only circulate, not increase, the produce and productive stock of the community: But the gold and filver ores are an original produce, for which no equivalent has been given; which, though they may be coined by government, will foon be exchanged, if superabundant, for the commodities of other nations, and which always afford a clear gain, befides the expence of production. Now, it is very evident, that the manner in which the precious metals are procured cannot possibly affect this question. An equivalent must be given for them in every case, and in every case a profit must accrue from the purchase. If they are obtained by mining, the equivalent is the expence of mining, including all the lotter which arise from the numerous unsuccessful speculations of that kind. If they are obtained by commerce, the equivalent is the goods which purchase them. The capital employed in mining is replaced with a small profit; and the capital employed in importing bullion is also replaced with a profit. In which way soever a nation obtains the precious metals, it gains all that convenience or gratification which their use affords to commerce or tafte. The precious metals, indeed, when used as coin, distribute the stock of the community, without directly increasing its quantity. The profit that arises from the use of them is nevertheless as certain as that which arises from any other branch of the circulating capital, or from the fixed capital, to which it bears, as Dr Smith has remarked, a striking resemblance in several respects. We have infifted at greater length on these erroneous views of Mr Wheatley. Wheatley, because they border very nearly upon the fundamental principles of the economists, and have probably been introduced into his speculations from some indistinct conception of that ingenious theory. It is fair, however, to remark, that though they frequently recur in the course of his subsequent reasonings, they affect the language more than the substance of his statements, which, in so far as they are levelled at the main errors of the mercantile system, do not materially depend on the portion of error mingled with his preliminary views.

In the Second chapter, our author discusses, at considerable length, the theory of the balance of trade. That theory, he observes, is founded upon the position, that a nation can only be enriched by the excess of its exports above its imports, which must be received in money. Unless the money thus acquired shall be retained, it might as well not have been imported; and if the money is reexported for other commodities, these might as well have been procured, in the first instance, by an exchange of the goods fold to procure the money. The detention of the money, on the other hand, is impossible, without an entire infulation of the community from all commercial intercourse; and, even if it could be effected, the community would lose exactly the value of the goods previously exported to purchase it. The theory of the balance of trade is therefore proved to be absurd, by a reference to the principles laid down in the first chapter.

In all this, there is more of indistinctness and repetition, than of error. It is true that more money cannot be permanently retained than the wants of the community require: But this was proved before, and the proof of it was sufficient to overthrow the theory of a balance. It is incorrect to fay, that unless the money is retained, the goods might as well have been fent at first to the market where the commodities in request are sold. The community gains by the intervention of a circulating medium, which enables it to trade with countries where there is no demand for its own produce. It is still more inaccurate to maintain that if a fuperfluity of money could be retained, the community would lofe the price which it had paid for the tuperfluous quantity. price was itself a surplus, and had no more value than the surplus of specie. Both the one surplus and the other, derived their value from there capability of being exchanged for commodities which are useful. Mr Wheatley would have saved himself much troubleif he had formed at first a steady view of the fundamental error. of the mercantile system, viz. the exclusive preference which it unnecessarily gives to the commerce of the precious metals.

Having

Having refuted the idea of a balance by referring to the doctrines previously laid down, he now proceeds, after some needless repetition of those doctrines, to explain, from the facts respecting foreign exchange, the manner in which an equilibrium of money is always preserved. When two countries trade together, and the standard of their currency is the same, that is, according to our author's acceptation of the words, when there is the fame relative proportion of currency in both, money only ferves as a measure of equivalency, not as a medium of exchange. When the currency of one country exceeds that of the other, more goods are imported than exported by the former; its debts to the latter exceed its claims; and the bills against it, being more numerous than the demand for them, fell at a discount. For the same reason, the bills against the creditor country bear a premium, their number falling short of the The depreciation of currency from abundance, is therefore the cause of that excess of debts above claims, which occafions a remittance of bullion to the creditor country, and the payment of a premium, in proportion to the expence, risk and profits of this remittance. This is the only view of Mr Wheatley's general explanation, which we are able to collect from the long and confused statement which he gives of the subject. Some of his expressions, indeed, we have not been able to comprehend. course of exchange,' he says, ' is the expedient to which mankind have reforted for maintaining the purity of the common measure of equivalency.'

The excets of currency in any country is unquestionably one cause of what is called an unfavourable balance of trade. But instead of being the only cause, or the ultimate sact, it is a much less general circumstance than the excess of debts above credits, which our author has deduced from it alone. A few obvious considerations will render the indistinctness of this view sufficiently apparent.

Money, like every other commodity, always follows the effectual demand for it. But sometimes the traders, whose business it is to supply the market with specie, import too much. The overplus will be reexported—that is, other goods to the amount of this overplus will be imported; and before the specie which buys them is remitted, a debt is constituted against the importing country. The depreciation of specie from abundance, is therefore one cause of the excess of debts above claims; but it is no more a cause of this excess, than the depreciation of any other exportable commodity, in consequence of an overstocked market; and the equality of debts and claims will be restored in all cases alike, by the actual exportation of the goods for which value has been received. If there is no demand for the bullion, or for the goods, in the foreign market, the balance will remain against the country which

which has imported, and the bills expressing its debt will continue to sell at a discount: But this will happen, whether the excessive importation has arisen from the abundance of its currency, or from the length of credit which it obtains from other countries, and which enables it to receive supplies before it sends out the equivalent. The equality of debts and claims will be restored; and the bills will become saleable at par, as soon as the goods, of what kind soever, are exported, for which the imports were obtained. Exchange might be at par, while nothing but goods on one side was given for money on the other; and the bills against a nation might bear a premium, while it exported nothing but bullion. The difference between the exports and imports, from whatever cause it arises, must in every case constitute the difference between the

value of the bills of two nations trading together.

Mr Wheatley, after some statements of fact tending to illustrate the impossibility of retaining a superabundant quantity of coin in any country engaged in foreign commerce, remarks, that at various periods during late years, the balance of trade has been unfavourable to England, notwithstanding the quantity of money coined, and the constant excess of exports above imports, according to the custom-house accounts. In order to explain this apparent discrepancy, our author endeavours to prove that the excess of exports above imports is not a complete tell of a favourable balance of trade; that the course of exchange is the only certain proof which we have of fuch a balance; and that the influx or efflux of money corresponds with the course of exchange. That the balance of export and import, as flated in the custom-house books, affords no decifive proof of the real balance of credit and debit, is a proposition of which few have entertained any doubts. and Dr Smith, indeed, pass it over as unquestionable, without adducing arguments in its favour. But if Mr Wheatley means to affert, that there is any difference between the real balance of exports and imports, and the balance of trade; we apprehend he is using a language hitherto unknown in the speculations of political occonomy. If, by the course of exchange, too, he means the apparent rate, as he certainly must, it is evident that he has omitted one confideration of very material importance—the effects of an alteration of the purity of the currency, or, which is the fame thing, of the quantity or the credit of fuch part of the currency as cannot be exported when too much multiplied. Whenever, from any excess or discredit of this description, the market price of bullion becomes greater than its mint price, an apparent fall in the course of foreign exchange must take place, although the real balance of trade may be at par, or favourable; that is, the claims of the nation may equal or exceed its debts.

Proceeding

1803.

Proceeding upon the supposition, that the exports of this country have, at different times, been greater than its imports, while an unfavourable balance of trade was indicated by the course of exchange, our author attempts to reconcile the inconsistency, by examining the state of foreign expenditure during those times. This, he observes, could only absorb the money that would otherwise have been imported, if a balance had been due. But it is, in fact, entirely transacted by bills; that is to say, either by the remittance of bills in favour of this country, obtained instead of the balance due; or by drafts against this country, which constitute a debt, if no balance is due. Now, as no balance can be due, according to our author, while the course of exchange continues below par, the foreign expenditure must be defrayed by drafts upon this country, as indeed the public reports flate it to have been; in other words, the amount of this expenditure, which does not appear in the custom-house books, must be added to the imports; and it is to meet this expence, that the excess of exports, otherwise unaccounted for, has been made. In all this reasoning, we can discover no inaccuracy. It is, indeed, sufficiently ingenious and correct; tending to exhibit, in a very clear point of view, a palpable deficiency in the custom-house returns, as meafures of the commercial balance; and supported by the official documents respecting the public foreign expenditure, as well as by the fact of the fuddenly increased exportation to Germany during the years of war. *

But, in the remainder of Mr Wheatley's speculations upon the same branch of his subject, we meet with a remarkable degree of carelessness and consusion. The foreign expenditure, he maintains, can never alter the standard of currency; that is, the relative proportion of money in the nation. But if the total balance of trade is unsavourable, the imports must exceed the exports, according to Mr Wheatley's own admission, p. 73. Now, all that part of the imports, which is accounted for by the custom-house books, falls short of the exports: therefore, the whole foreign expenditure, public and private, is justly added to the oftensible imports. But this addition renders the imports greater than the exports, since the course of exchange, and the total balance, is unfavourable. Hence, it is evident, that the balance is turned by that part of the imports which the custom-house books do not account for, viz. by the foreign expenditure.

If

^{*} By comparing the tonnage with the value of the cargoes in the public returns for years of war, the increased exportation will be found to confift chiefly of the finer manufactures, according to Dr Smith's remarks, from which more illustration of the subject might have been derived, than Mr Wheatley has thought proper to draw.

If the export, which, according to Mr Wheatley, is caused by the foreign expenditure, were sufficient to balance that expenditure, the whole exports would be equal to the whole imports, and no debt would remain. The existence of the debt, or of the unfavourable exchange, is a complete proof that the amount of the foreign expenditure exceeds the difference between the exports and the oftenfible imports. Mr Wheatley concludes, in general, (and the polition, fo far as we know, is entirely new), that a permanent excess of the exports above the imports, of any nation, can only be produced by foreign expenditure, and by the confumption of bullion; but chiefly by the former of these causes. Now, there is one very obvious, and much more constant cause of this excess—the increase of domestic resources, and the consequent demand for an augmentation of the circulating medium. This will not, indeed, raile the proportion between the precious metals and other commodities, higher in one country than in all the rest with which it trades; but it must operate in maintaining the proportion between the number of exchanges to be performed, and the medium which performs them,—unless, in so far as the substitution of a cheaper instrument of commerce may, to a certain extent, preclude the necessity of exporting a surplus, in order to procure the precious metals. We cannot leave the two first chapters of this tract, without remarking, that the refutations of Sir James Stewart's objections to Mr Hume's arguments, given at the end of each, are extremely loofe, and would be quite unfatisfactory to any one predifposed in favour of the mercantile fystem.

The object of the Third chapter, is to lav down the true principles of national wealth, as derived from commerce, in opposition to the hypothesis of the balance of trade, refuted in the foregoing

parts of the treatife.

All direct foreign commerce, according to Mr Wheatley, is the exchange of equivalents, and no nation can be faid to gain any accession to its wealth by such an operation. The merchants, who act as the factors in this intercourse, receive a commission; but this, being ultimately paid by the country to which they belong, and of which they circulate the produce, does not tend to increase its opulence. The transit trade, our author conceives to be in a different predicament. The nation which acts as an entreport to the commodities of foreign countries, receives the commission from foreigners, and gains so much clear profit at their expense. This profit is, however, paid in produce, not in money; and forms, therefore, no accession of specie.

In whatever instance, 'says he, 'a state is possessed of the transit trade, by forming an intermediate mart for foreign produce, whether it unite

thite with its agency, the profits of the carrying trade, as was formerly the case with Holland, or whether it be a simple entrepot, as at present with Hamburgh, it derives an accession of wealth from foreign nations proportionate to the amount of the commission. The city of London possesses some portion of this transit trade, and has some business as an intermediate agent; but, on account of our repugnance to the establishment of free ports, the policy of which I shall hereafter consider, it forms, in a much greater proportion, a depot for the domestic and colonial produce of Great Britain, than an entrepot for foreign produce.

'Though, therefore, the intermediate agency of an entrepôt forms an exception to the general principle, that no profit be [is] attainable in the commercial interchanges of independent nations, yet it has no tendency to effect [affect] the general question [proposition], that a nation is enriched by the increase of produce, and not by the accumula-

tion of money.

if it may be established as a fundamental principle, that all commerce is an exchange of equivalents, it follows as a necessary consequence, that whatever tends to an increase of equivalents, tends to an increase of opulence; and that the commercial wealth of a nation should be estimated by the whole value of its equivalents collectively, and not by that portion only which returns an equivalent in bullion, which there is no possibility of detaining, and which, when parted with, can only repurchase the equivalent that bought it. 'p. 110. 11.

Now, we do not think that there is any thing in the mercantile fystem more erroneous than this doctrine; and the error unfortunately extends to the very fundamental principles of commercial prosperity. Trade enriches a nation, by enabling it to exchange what it has no use for, against what it stands principally in need of; and not by the profit or commission that may be realised by its merchants. It is abfurd to fay that all trade is merely an exchange of equivalents: if this were the case, no exchange would ever take place at all. The exchange is always a gain to both parties, and each receives more than he gives away. In the case of an »bsolute and proper surplus—that is, of such an excess of particular commodities, as could in no way be used at home, there is a direct gain of the whole articles obtained in exchange, and, in every case, there is a great gain to the nation, out of which the profits of the trader are defrayed. If one country produced no corn, but raised twice as much cotton as it had any use for, and another had a great superfluity of corn, but no material, for clothing, it is evident, that a trade of barter between those two countries would be in the highest degree beneficial to both; and would augment their real riches in an incalculable proportionin a much higher proportion, and much more directly, than if they were to apply themselves to the transit trade, and carry their profits, instead of their produce, to be exchanged for these mu-. YOL. III. NO. 5.

mal necessaries. The effect of this barter, too, would not be confined to the exchange of the existing superfluity; it would stimulate both countries to increase their industry, and enlarge the quantity of their exchangeable produce. The one would cultivate its corn fields, and the other its cotton plantations more extensively; and the population of both would increase, along with its ability to feed and clothe an additional number of inhabitants. To this simple case, all the complicated operations of commerce are ultimately reducible; for all the advantages of trade centre in this, that it enables us to get what we want, by giving what we have no use for, and stimulates our industry to increase the quantity of that furplus, which is good for nothing, but for being exchanged against something else. It is impossible, therefore, to commit a greater error than Mr Wheatley has done, in afferting that all trade of exchange is absolutely unprofitable, and that a real gain can only be made by the transit trade. This fundamental error, however, runs through the whole of the third chapter; and towards the conclusion, it is defended by the example of the greatest commercial states, particularly Holland, Hamburgh, and the Italian republics; all of which, fays our author, acquired their principal wealth by the profits of the transit trade, p. 165, 6, 7, 8. We will venture to affert, that no part of the mercantile theory is more abfurd, than the peculiar favour with which it regards the carrying trade, as a special means of levying contributions upon foreigners. And the only difference between this feature of the mercantile theory, and the politions just quoted from Mr Wheatley, is, that he favours the carrying trade (of which the entrepôt trade forms a branch), as a means of levying thole contributions, not in the shape of money, but of goods. The merchant who employs his stock in circulating the commodities of foreign nations, receives a profit from them; but the effect of this employment of his stock, is to replace two foreign capitals; to promote the industry, and increase the wealth of foreigners. Had he employed the same stock in circulating the produce of his own country, it would have yielded him quicker returns of profit — would have promoted the industry, and increased the wealth of his countrymen. Had he employed it in exchanging the produce of his country against that of foreigners, it would still have yielded profit; and would have increased the wealth of the ountry more than the carrying trade can do—though less than the home trade.

In every fort of foreign commerce, both in the foreign trade of confumption, and in the carrying trade, the profits of the merchant come from the foreign country, inalmuch as the use of foreign commodities enables the capitalist to obtain returns. In the foreign

foreign trade of confumption, he receives his profit out of that valuable furplus which his operations have added to the flock of his country, by procuring a useful for a fuperfluous portion of property. In the carrying trade, his gains arise from the value which he has added to the stocks of foreign nations, by means either of his capital alone, as in that carrying trade which employs foreign vessels; or of his capital, and some part of the fixed stock of his own country, as in the entrepôt trade, and in that carrying trade which employs no foreign vessels. The direct augmentation of wealth, which his country receives in the shape of his prosit, is the same in all these cases. That much more important increase of opulence, which it receives from the replacing of stock, is confined to the foreign trade of consumption, and the latter branch of the carrying trade; but is, beyond all comparison, greatest in the foreign trade of consumption.

The example of those commercial nations, whose wealth has been promoted by the transit trade, is of no moment in the present discussion. Their attention was directed to that branch of traffic, from the extent of their capitals, and the peculiar circumstances of their situation with respect to other states. The acquisition of the carrying trade is, in fact, a certain consequence of an overflowing capital, and a convenient maritime situation. But it is an acquisition not to be desired, until every other channel of employment is full. Mr Wheatley appears to us almost equally inaccurate in his general observations upon the wealth of nations, as deduced from their exports. In order to estimate the comparative wealth of Great Britain and the Continental states, he thinks it sufficient to compare the total exports of Great Britain with the exports of those other states. It is unnecessary to remark, that without exporting a single ton of goods, a nation may acquire prodigious wealth; and that the net revenue of a country engaged in foreign trade, cannot be calculated from its exports, any more than from any particular branch of its domestic circulation.

The remaining part of this chapter we consider as by far the best part of Mr Wheatley's whole treatife. It is occupied with remarks upon the commerce of Great Britain, which he divides into three branches—she home trade, the colonial trade, and the transit trade. We particularly refer our readers to his remarks upon the East Indian commerce, which are, for the most part, ingenious and liberal, and which we wish he had not complete with the very logic and declamatory allusions to the provincial government of Rome, p. 161. The errors of his general opinious concerning the transit trade, we have already taken the liberty of noticing. His more minute and practical observations

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observations upon the benefits of a free-port law, are entirely unexceptionable. But we must observe, before leaving this chapter, that there is a great degree of inaccuracy in his division of the subject. By home trade, our author understands the exchange of domestic produce, or domestic manufactures, against foreign produce or manufactures. This is exactly what all other writers denominate a foreign trade. Pursuing the erroneous idea formerly pointed out, he considers the extent of this traffic, and of the colonial surplus of imports, as the true tests of national wealth; and omits altogether the most important branch of trafficthe internal commerce of the country; that of the country and the towns; that, in short, which all other writers have denominated the home trade. Yet Mr Wheatley confiders the colonial trade, which is in fact a home trade, as a branch of foreign commerce—otherwise, he would scarcely enumerate it as one of his three divisions; and he bestows, at the same time, unbounded eulogium on the penetration of the late Infpector-General, for having discovered that the imports from the colonies are not like those from foreign nations, but are to be viewed as remittances, in so far as they exceed the exports thither. is inconfistent, too, with all accuracy of principle to maintain, that this excess of imports is the only gain which accrues from the colonial trade. The excess is not a gain from the colony trade: it is a remittance of rent to the non-refident proprietors of colonial property, and of interest to the moneyed men whose capitals are lent upon colonial fecurities. The abolition of fome branches of the colonial monopoly might indeed augment this furplus, but not exactly in the manner described by Mr Wheatley.

If' (fays he) I fome proportion of the produce now forced out to our colonies were diverted to an independent state, for an equivalent in foreign merchandife, and the same quantity of colonial produce" were notwithstanding imported, the nation would be enriched by the proportion directed to the continent for a foreign equivalent. If by a forced exportation of feven millions of produce to the West Indies, we received only eight millions in return, which is the present state of our trade, the nation gains [would gain] but one million by the bargain. instead of this policy, we exported four millions out of the seven to the continent, to be returned in an equivalent of foreign produce, and the eight millions of fagar were received, with the aid of only three millions from home, the nation would gain five millions by this trade, instead of one. I have no means of estimating the proportion of supply which the planter would draw from this country, if he were at liberty to choose his market; but it is obvious, that the less exports he take [takes] from us, and the more produce he bring [brings] to us, the more he advances the interests of his country; and not by the more he take [takes] from us, and the less he bring [brings] to us, as the Balance of Trade [Theory of a Balance of Trade] has endeavoured to perfuade us. ' p. 132. 133.

The great omission of circumstances in this statement of the

fubject, is too obvious to require farther notice.

Upon the whole view of these three chapters, which contain Mr Wheatley's examination of the mercantile system, and exhaust the main part of his design, we have little helitation in giving it as our opinion, that he should not expect to convert one supporter of the old theory, whom the copious and masterly resultation of Dr Smith, and the luminous, though less correct arguments of Mr Hume (apparently more familiar to our author), have failed to undeceive.

The remaining part of Mr Wheatley's work does not require so minute a consideration;—the subjects which it discusses are more concise, and the discussions themselves more consistent. This, however, is the department in which we meet with the greatest portion of error; and the general conclusions are here as unfounded as those of the former chapters were self-evident. The two leading doctrines of Mr Wheatley, in this part of his speculations, are, the rapid progressive depreciation of currency, and the necessity of a reformation in the paper circulation of Great Britain. The former of these topics he has needlessly divided into two discussions, separated by the latter. We shall offer a few remarks on both his theories, in the order just now mentioned.

I. It is well known to our scientific readers, that Dr Smith made use of the average prices of grain, as the most accurate measure of the value of the precious metals at different periods. His reasons for adopting this standard, were partly drawn from his peculiar habit of confidering labour as the only measure of value, and partly from those circumstances in the nature of grain, which render it of all commodities the most constantly exchanged, the most frequently compared with money, the most regularly demanded at all times, and the most universally used in all places, The common opinion, that filver had been finking in value, with more or less rapidity, ever fince the Romans left Britain, was therefore examined by Dr Smith, and refuted, upon a comparative view of the money prices of grain. He endeavoured to show, that, as the increase of corn had outstripped the supply of the. precious metals before the American mines were discovered, the value of filver was rifing previous to that event;—that, fince the influx from those mines completely produced their effects upon prices, the value of filver has again begun to rife, or, at least, is by no means falling; —and that all the additions which continually come from thence, are absorbed by newly formed or improved communities; confumed in manufactures; loft during transportation; or carried away to the markets of Asia.

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To the conclusions of Dr Smith, Mr Wheatley, who does not appear to have read the celebrated digression concerning the value of silver, and who calls the adoption of corn, as a standard, an assumption, opposes the table of prices drawn up by Sir George Shuckburgh Evelyn, which he terms a masterly resutation, and an acquisition highly honourable to the literature of the age. Upon the results of the table, with regard to the constant depreciation of currency since the Norman conquest, our author builds all his arguments. Without any hesitation, he draws the most startling inferences; and never stops a moment to inquire what may be the folidity of the document on which he has founded so lofty a mass of new doctrine.

As money, says he, is now above 25 per cent. less valuable than it was at the end of the American war, a monied income or capital of 400l., has, fince that period, become worth lefs than three. A landlord may raise his rent at the expiration of his leafes; but, in the mean time, his fortune is daily decreafing, in proportion to the length of the tenant's bargain. All annuitants in the public funds are becoming poorer; the country nominally gives them the stipulated interest, but in reality only fifteen shillings in the pound, if the money was invested twenty years ago, and not nine flillings, if it was invested at the beginning of the eighteenth century. The falaries of officers are teduced at the fame lamentable rate. The value of the capital lent to Government diminishes in the same proportion-a proportion which is rapidly accelerating: But if only the prefent rate continue, in half a century the whole national debt will be paid off, except one skilling in the pound. Against the injustice of this method of liquidating our debts, Mr Wheatley inveighs with confiderable warmth; and expresses his hopes, that instead of continuing devoutly to wish for this great confummation; the eyes of the public will be so far opened, by the calculations of Sir G. Shuckburgh, that the fear of the debt being paid too foon will alone be felt.

Such, though somewhat condensed, is the substance of the two chapters upon the depreciation of currency. They are altogether composed of corollaries to Sir G. Shuckburgh's table; and we conceive that the easiest way of quieting the fears of those who may partake in our author's apprehensions, and of exposing the radical fallacy of his ingenious system, will be to examine this table. It has indeed excited much less notice than it deserves, if it is entitled to the smallest proportion of the considence thus liberally bestowed by Mr Wheatley.

Sir G. Shuckburgh published his table, in the very valuable paper which he communicated to the Royal Society, upon the methods

methods of afcertaining a standard of weights and measures. In this inquiry, the table forms a kind of digression; it is casually introduced; it does not seem to be marked by the same accuracy which distinguishes the main body of the paper; the documents are only referred to in the most general way; and, far from appearing to have taken the general views which must influence all speculations about the analysis of price, he does not seem to be aware of the scientific nature of his subject; he prefaces the table by an apology for descending below the dignity of philosophy; addresses it to the historian and antiquary; and though he alludes to the writings of Smith and Steuart, yet he appears only to have consulted them in order to pick up detached sums and dates.

The first column gives those years (that is, fingle years) from 1050 to 1795, for which he has lists of prices: the next gives the average price of wheat; the next twelve give the prices of twelve other articles: then follows a column with the mean prices of these articles; a column with the prices of husbandry labour, and another with those of beef and mutton. The remaining columns exhibit the comparative view of the value of money, according to these various prices in the seven years for which alone he has tolerably full lists of prices, viz. 1050, 1350, 1550, 1675, 1740, 1760, and 1795. And, from the results of this comparison for these sew detached years, he forms, by inter-

polation, his table of depreciation.

Now, it must be observed, in the first place, that the prices are' only obtained from the averages of fingle years, and that of thefe there are only fix, befide the year 1550, which is assumed as a standard. This is a radical objection to the whole calculation. We know well how much prices vary from year to year; and how' difficult it is to find any lifts of them in ancient authors, unless when the motive for recording them was the extraordinary cheapness or dearth. It is plain, too, that besides variations from fearcity, different circumstances of a local or temporary nature operate at particular periods, to raife or depress the prices of commodities. Thus, it actually happens that the three last of the seven years were seafons of extensive warfare, and that two of these were years of uncommon scarcity, as well as foreign The consequences of forming a calculation from single years, may be perceived in the erroncous conclusions to which the column of corn prices would lead us. The price of wheat for 1350, is the very fame with that for 1550, according to Sir George Shuckburgh's own account; yet Dr Smith has clearly proved, not from the state of the corn market for two single years, but from a variety of general tests, corroborated also by a series

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of successive facts, that during this very interval the money price of wheat was regularly falling from twenty to ten shillings the

quarter.

But farther, the lists of prices in the different years are not equally complete: the mean value of money is estimated from five articles only, together with wheat in 1050, the first year of the series; and from eight articles, together with wheat and day labour in 1350. Two of the twelve mitcellaneous articles are, ale and small beer; commodities of which the prices are extremely complex, and influenced indeed by the operation of direct taxes. According to the table, the price of the former doubled between 1650 and 1675, while that of wheat still in the proportion of eleven to nine. The price of beef and mutton increased between 1740 and 1760, in the proportion of two to three. During the same interval, the prices of oxen, cows, and sheep, scarcely augmented sensibly; the rise was only in the proportion of three hundred and forty-seven.

Some inferences may be drawn from the table, which are in our apprehension equivalent to a reduction and absurdum. It would follow, for example, from a comparison of the price of labour in husbandry with the price of wheat at different times, that the lower orders were in a better condition a hundred years after the Conquest, than they were during the latter part of the American war. A day's wages could, at the former period, purchase nearly half a bushel of wheat; at the latter period, the same wages could purchase little more than a quarter of a bushel.

As Sir George Shuckburgh has not detailed the particulars of his data, or described the methods by which he formed his mean estimates of articles for each year, we cannot decide with respect to the limits within which he may have attained an accurate cal-But we may be permitted to doubt the possibility of getting tolerably just averages of the prices of such commodities as vary extremely in quality or in quantity, or in both. Of the first kind is cheefe, and perhaps malt liquors; of the second, oxen; of the third, horses In consequence of these considerations, we are the less surprised to find that the table of depreciation, rafhly constructed, by interpolation, from such scanty and deceitful materials, is inconsistent with some of the very data which are given in the larger table, but not used in the calcula-The value of money for 1550 being 100, its value for 1150, by the interpolation table, is 43. But if its value is calculated from the prices of cattle in the larger table, it is only 33; and from the prices of cattle and wheat together only 31. one table gives 88 for the value in 1450; the other gives 100 or 95, according as we take the price of cattle fingly, or that of cattle and wheat together.

But there are various objections of a more general nature to the whole plan of this table, which must already have forced themselves upon our readers. If the depreciation of money is to be estimated from the rife in the money price of commodities, an allowance is necessary for the effects produced upon price, by the variation in demand and supply, which takes place according to the progress of society, and the different circumstances of its situation. If articles of various kinds are differently affected by these changes, the average of the whole variations of money price will certainly not give any approximation to the variations of the value of money. If one article has grown cheaper, in confequence of improvements in the mode of raising or manufacturing it, and another has grown dearer in confequence of a decreasing demand, and diminished attention to its production or fabric, although we should admit that specie has all along been growing more plentiful, so as to counteract the effects of the former circumstances, and to assist those of the latter, the medium of the change produced in both cases will evidently furnish no document of any fuch increase of specie. It would be absurd, therefore, to estimate the proportion of this increase, by averaging the contrary effects of opposite circumstances altogether independent of the frate of currency; or, which is the fame thing, to take a medium between an increasing and decreasing series of prices, as a test of the variations in the standard of money. fame remark may be made with respect to averages of increasing series of prices, and prices which are flationary, or which alternately increase and decrease. Yet, in the table of Sir George Shuckburgh, some of the articles are nearly stationary, as wheat; others most rapidly increase, as cattle; others, as poultry, first increase, and then decrease. If wheat and malt liquors are asfumed as criteria, while their circumstances vary according to laws to different from those which affect the other commodities, it feems difficult to discover why other articles, such as various manufactures, should not be admitted to influence the calculation, fince they are much more fimilar to grain and liquors, than they are to the produce of pasture land. With respect to the value of money in a larger fenfe; the quantity of comforts and conveniences which it can purchase, has furely been, upon the whole, greatly increased during the period which has clapfed fince the discovery of the American mines produced their greatest Many of the necessaries of life have also become cheaper; and some commodities have been disclosed to us, which may be substituted for those necessaries.

Taking this complex view of the subject, (and we can scarcely venture to think that any other is compatible with the nature

of the question, at all events, we are sure that nothing like proportions can be afcertained in fo great a mixture of causes), it mould feem that the value of money has, upon the whole, not decreased in any ratio fimilar to that of Sir George Shuckburgh's table, even admitting his data to have been fufficiently extensive. and his mode of computation quite correct. This supposed fact, of the great depreciation of money, is one of those which may be fafely admitted, only in so far as they can be accounted for. The continued influx from the American mines, has been demonstrated by Dr Smith to be quite inadequate to produce any progressive effects upon the general prices of commodities in the European commonwealth. No one now conceives it possible to effect any partial rife of prices by the increase of specie currency. The augmentation of paper money is proposed by Mr Wheatley as the cause of that enormous depreciation which he maintains, or rather affumes, to have taken place. But this is both inconfiftent with the facts on which his speculations are founded, and repugnant to more general principles. It is inconfiftent with the facts; because, according to Sir George Shuckburgh's table, the rate of depreciation was much more rapid during the century after the Conquest, than during the century after the Restoration; during the period when neither new mines were discovered, nor paper currency existed, than during the period when, according to Mr Wheatley, the effects of the newly discovered mines were fucceeded by the still more powerful instuence of the paper syf-*tem *. The explanation of the supposed rapid decrease, by the effects of paper currency, is no less inconsistent with the most obvious views of the manner in which the general depreciation of currency is effected by the disproportionate issue of paper. For if that iffue becomes fo great, as to cause a rapid depreciation, the market price of the precious metals must rise proportionably above their mint price, and the specie must either be withdrawn from circulation altogether, or a permanent difcount must be established between coin and paper currency: neither of which effects it is pretended has taken place.

It is impollible, therefore, to account for the supposed depreciation upon any principle hitherto proposed; and we have endeavoured to show, that the evidence upon which the supposition rests, is of the most slimity and suspicious nature. There can remain

We must attend, in this estimate, to the period between 1675 and 1760, and not to the period ending 1795 or 1800. All the numbers after 1760 are interpolated by the aid of the mean for 1795; a year of superarordinary searcity, according to the table itself, that the areas price of wheat was nearly double its medium price in 1780.



remain no deubt, then, that the conclusion must be given up which Mr Wheatley has confidently built on such grounds; and we may add, that even if the whole extent of the data were admitted, the fallacy of some positions would remain incontestable. It would still, for example, be erroneous to consider the gradual extinction of the national debt, by the depreciation of currency, as a breach of public faith, or to omit the consideration of those changes confessedly beneficial to annuitants, which are daily taking place in the price of various commodities, or to rank the adjustment of wages among the duties of the legisla-

tor, as Mr Wheatley very distinctly does in p. 196.

II. The other fallacies which we conceive our author has committed, upon the subject of paper currency, are by no means so remarkable, either for novelty or boldness, as that which we have just now been examining. The excess of paper he imputes to the progress of taxation; and, after many eulogiums upon the constitution of the Bank of England, while it remained the soleregulator of the paper circulation of the country, he afcribes the difficulties under which the Bank has laboured, as well as the whole commercial and financial embarrassments of the nation, during the late war, to the increase of country banks, and the permission of their notes. These banks, he contends, in times of tranquillity, enlarge their issues too much; and, in times of alarm, contract them to a proportionable degree. Their notes are, in such emergencies, more liable to suspicion than bank The effects of the distrust excited by these, reaches the Bank, whose issues are thus extended in consequence of the country paper being depreciated, as they are contracted from its redundancy in prosperous times. The same redundancy, he adds, increases all those bad effects of paper currency, which we have already attended to. In order to render this reasoning conclusive, Mr Wheatley must prove,

First of all, That the right of engaging in an important department of trade, ought to be confined by Government to one great mercantile company, merely because private individuals may

over-trade in this, as in every other line.

Secondly, That the trade of banking is so very peculiar in its nature, as to destroy all prudence, and even to obliterate the

fear of failure, in those who undertake it.

Thirdly, That the Bank directors are likely to know the credit of those whom they deal with, better than the merchants in country towns know that of their customers; and are likely to superintend the whole circulation of the community more accurately of themselves, in the metropolis, where they have each separate concerns, than when affisted by the vigilance of four hundred agents in different quarters, whose lives are devoted to the task.

Lastly,

Laftly. That the central bank has not a fufficient controll over all country binks, when at every time its notes bear to theirs the same relation that specie bears to its own; more particularly, when its obligation to pay in specie has been suspended, without any analogous suspension in favour of the country banks. It is indeed ablurd in the extreme, at present to complain of the country banks increasing the paper currency beyond its just bounds. Until they also shall be absolved from the obligation to fulfil their contracts, no advocate for the Bank of England ought to hazard an allusion of this kind. These establishments still remain underthe various checks, which secure the honesty, and quicken the prudence of every private trader. They have the most powerful inducements to pursue the line of conduct most beneficial to the public, and the best means of discovering the direction in which that line runs. To expect, from their thoughtlessness and avarice, a general depreciation of the currency, by a univerfal over-iffue of notes, would be as ridiculous, as to suppose that the Oporto merchants will ever deluge the country with port winc.

Before taking leave of Mr Wheatley's treatife, we must again express our disappointment at the scantiness of the new matter which et displays, upon so various and important a field of inquiry, after the iplendid promises of the preface. The minuteness, however, with which we have gone through almost all his reasonings, is a fufficient proof that we value his performance more than the common ephemeral publications on political topics. has evidently paid confiderable attention to a subject, removed, by its manifold difficulties, above the reach of ordinary reasoners. we trust that he will continue to prosecute his speculations, until he shall make some real addition to this important branch of science. The style of the tract is extremely caretels, and in many parts tainted with a disagreeable vulgarity of expression. frequently deficient in grammatical purity; and for these imperfections, it only atones, by a very laudable facrifice of all pre-tensions ornament. But, in a work of this nature, these are yery trivian faults; and we should not have even thus shortly hinted at them, had we met with much to gratify us in the more substantial parts of the entertainment.

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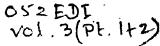
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ERRATA.

- P. 397. line 27. for Tchangire, read Jehangire.
 - 30. for annil, read aumil.
 - 32. for having found, &c. read finding the ground still hot and burnt up, &c.





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ART. I. Account of the Life and Writings of Thomas Reid, D. D. F. R. S. Edinburgh, late Professor of Moral Philosophy in the University of Glasgow. By Dugald Stewart, F. R. S. Edinburgh: Read at different Meetings of the Royal Society of Edinburgh. 8vo. pp. 225. Edinburgh and London. 1803.

This Work is divided into three Sections; the first containing the history of Dr Reid's life and occupations from his birth till the date of his latest publication; the second consisting of observations on the spirit and scope of his philosophy; and the last bringing down the narrative to the time of his death, and concluding with a general view of his personal character and

dispositions.

Of these three sections, the first perhaps is the least interesting. The retired life of a contemplative philosopher, is generally very barren of those incidents that furnish materials for biography; and it does not appear that any other memorial has been preserved of the order or progress of Dr Reid's studies, than that which may be found in some passages of his own publications. We pass over Dr Reid's genealogy; for though there appear to have been several authors in the line of his ancestors, we do not find that any of them attained such a degree of celebrity as to have rendered the name familiar to the lovers of learning. His father was a clergyman in the North of Scotland; and he was himfelf educated at the Marifchal College of Aberdeen, where he was very foon nominated to the office of Librarian. At this period, he was more remarkable for industry and modesty, than for any extraordinary vigour of understanding; and showed a great partiality for mathematical studies, and for the doctrines of the Newtonian philosophy, which were then only beginning to be taught in the northern universities. In 1737, he was presented to a living in the neighbourhood of Aberdeen, where he at first experienced the most violent oppofition **VOL.** III. NO. 6.

fition from his parishioners; but succeeded so completely in overcoming their animolity, by his invariable mildness and beneficence, that when he was foon after called to a different fituation, the very individuals who had instigated the outrages with which he was received, followed him, on his departure, with their bleffings and tears. 'We fought against Dr'Reid' (faid they to their present pastor, from whom Mr Stewart has the anecdote) when he came; and we would have fought for him when he went away. ' In this retirement Dr Reid produced his first publication; which, though of no extraordinary interest or importance in itself, yet serves to mark the vigilance with which he applied himself, from the beginning, to the detection of loofe and illusive reasoning. It was a paper in the Philosophical Transactions of London for the year 1748, and was entitled, An Effay on Quantity, occasioned by reading a treatise, in which simple and compound ratios are applied to virtue and merit. The treatife alluded to, Mr Stewart informs us, was Dr Hucheson's Inquiry into the Origin of our Ideas of Beauty and Virtue, in which the author had attempted to subject the degrees of merit to the laws of mathematical proportion, and which enjoyed at that time a very high reputation all over Scot-

In the year 1752, Dr Reid was elected Professor of Philosophy in the King's College of Aberdeen; a society which had then to boast of the names of Gregory and Campbell, Gerard and Beattie, and in which Dr Reid sound both the occupations that were worthy of him, and the relaxations in which he delighted. In 1764, after mature deliberation, he gave to the world his Inquiry into the Human Mind; in which he explains those principles that had been suggested to him more than twenty years before, by the perusal of Mr Hume's Treatise of Human Nature. The process of reasoning by which he was led to call in question the first principles of the ideal theory, is pretty plainly delineated in the work itself; yet there is something peculiarly deserving of attention in the following passage of Mr Stewart's narrative.

In his Effase on the Intellectual Powers, he acknowledges, that, in his youth, he had, without examination, admitted the citablished opinions on which Mr Hume's system of scepticism was raised; and that it was the consequences which these opinions seemed to involve, which roused his suspicions concerning their truth. "If I may prefume?" (says he) to speak my own sentiments, I once believed the dollrine of Ideas so simply, as to embrace the whole of Berkeley's system along with it; till finding other consequences to follow from it, which gave me more uneasiness than the want of a material world, it came into say mind, more than forty years ago, to put the question, What evidence

have I for this doctrine, that all the objects of my knowledge, are ideas in my own mind? From that time to the present, I have been candidly and impartially, as I think, feeking for the evidence of this principle; but can find none, excepting the authority of philosophers."

In following the train of Dr Reid's refearches, this last extract merits attention; as it contains an explicit avowal, on his own parts that, at one period of his life, he had been led, by Berkeley's reasonings, to abandon the belief of the existence of matter. The avowal docs honour to his candour, and the fact reflects no discredit on his sagacity. The truth is, that this article of the Berkleian fystem, however contrary to the conclusions of a founder philosophy, was the error of no common Considered in contrast with that theory of materialism, which the excellent author was anxious to supplant, it possessed important advantages, not only in its tendency, but in its scientific confistency; and it afforded a proof, wherever it met with a favourable reception, of an understanding superior to those casual affociations, which, in the apprehensions of most men, blend indissolubly the phenomena of thought with the objects of external perception. It is recorded as a faying of M. Turgot, (whose philosophical opinions in some important points approached very nearly to those of Dr Reid), That " he who had never doubted of the existence of matter, might be assured he had no turn for metaphyfical disquisitions. " p. 27-30.

The importance which he assigned to this part of his speculations, and the fingular modelly and candour with which he continued to speak of his own achievements, after he had in a great measure effected a complete revolution in this branch of philosophy, may be discovered in the following passage of a letter to Dr Gregory, in 1700, which is inferted in another part

of this publication.

" It would be want of candour not to own, that I think there is some merit in what you are pleased to call my philosophy; but I think it lies chiefly in having called in question the common theory of Ideas or Images of things in the mind being the only objects of thought; a theory founded on natural prejudices, and so universally received as to be interwoven with the structure of language. Yet were I to give you a detail of what led me to call in question this theory, after I had long held it as felf-evident and unquestionable, you would think, as I do, that there was much of chance in the matter. The discovery was the birth of time, not of genius; and Berkeley and Hume did more to bring it to light than the man that hit upon it. I think there is hardly any thing that can be called mine in the philosophy of the mind, which does not follow with eafe from the detection of this prejudice.

" I must, therefore, beg of you, most earnestly, to make no contrast in my favour to the disparagement of my predecessors in the same pursuit. I can truly fay of them, and shall always avow, what you are pleased to lay of the that but for the affiliance I have received from their writings,

writings, I never could have wrote or thought what I have done."

P. 122-124.

The 'Inquiry into the Human Mind' excited, as was to have been expected, a great deal of opposition from the partizans of the established system; but attracted, at the same time, the admiration of many of the most fagacious philosophers of the From the University of Glasgow, in particular, the talents which it indicated obtained a very unequivocal testimony of approbation; the author having been invited, in 1765, to the professorship of Moral Philosophy, then vacant by the refignation of Mr Smith. This offer Dr Reid accepted, though not without confiderable reluctance; and continued in the regular discharge of his academical duties till the year 1781, when he withdrew altogether from the public labour of teaching, and devoted himself entirely to the composition of those volumes in which he was to bequeath his fystem of philosophy to posterity. In 1785, he published his 'Effays on the Intellectual Powers," and completed his plan in 1788, by the publication of the Essays on the Active Powers.

At this period, which may be faid to have terminated the literary career of this eminent philosopher, Mr Stewart suspends the projecution of his narrative, for the purpose of laying before his readers, in a connected and distinct form, the criticisms and observations which he has thought it most important to make on the spirit and scope of Dr Reid's philosophy.

In proceeding to the confideration of this part of Mr Stewart's performance, we feel ourselves divided between a suspicion of the author's partiality to the memory and the tenets of his venerable instructor, and an unseigned deserence and respect for every thing that Mr Stewart may deliver upon a subject which he has studied so profoundly. We hope that no one will suspect us of any defign to infinuate that Mr Stewart has represented the doctrines of Dr Reid in any other light than that in which they really appeared to him: But it is not always eafy to point out the imperfections of a system, to which the mind has been long habituated; and in criticiling the works of a departed friend, we neither expect nor wish for that severe impartiality which may be exacted as a duty from a stranger. Although it is impossible, therefore, to entertain greater respect for any names than we don't those that are united in the title of this work, we anust be permitted to say, that there are several things with which cannot agree, both in the system of Dr Reid, and in Mr Stewart's elucidation and defence of it.

The present section begins with a remark, the justice of which we are not at all disposed to controvert, that the distinguishing

feature of Dr Reid's philosophy is the systematical steadiness with which he has adhered to the course of correct observation, and the admirable felf-command by which he has confined himfelf to the clear statement of the facts he has collected. Mr Stewart, however, follows up this observation with a warm encomium on the inductive philosophy of Lord Bacon, and a copious and eloquent exposition of the incalculable utility and advantage that may be expected from applying to the science of mind those found rules of experimental philosophy that have undoubtedly guided us to all the splendid improvements in modern physics. From the time indeed that Mr Hume published his treatife of human nature, down to the larest speculations of Condorcet and Mr Stewart, we have observed this to be a favourite topic with all metaphysical writers, and that those who have differed in almost every thing else, have agreed in magnifying the importance of fuch inquiries, and in predicting the approach of fome striking improvement in the manner of conducting them.

Now, in these speculations we cannot help suspecting that those philosophers have been misled in a considerable degree by a salic analogy, and that their zeal for the promotion of their savourite studies has led them to form expectations somewhat sanguine and extravagant, both as to their substantial utility and as to the possibility of their ultimate improvement. In reality, it does not appear to us that any great advancement in our knowledge of the operations of mind is to be expected from any improvement in the plan of investigation, or that the condition of mankind is likely to derive any great benefit from the

cultivation of this interesting but abstracted study.

Inductive philosophy, or that which proceeds upon the careful observation of facts, may be applied to two different classes of phenomena. The first are those that can be made the subject of proper experiment, where the substances are actually in our power, and the judgement and artifice of the inquirer can be effectually employed to arrange and combine them in such a way as to disclose their most hidden properties and relations. The other class of phenomena are those that occur in substances that are placed altogether beyond our reach, the order and fuccession of which we are generally unable to controul, and as to which we can do little more than collect and record the laws by which they appear to be governed. These subtances are not the subject of experiment, but of observation; and the knowledge we may obtain, by carefully watching their variations, is of a kind that does not directly increase the power which we might otherwife have had over them. It feems evident, however, that it is T. 3 principally

principally in the former of these departments, or the strict experimental philosophy, that those splendid improvements have been made, which have erected so vast a trophy to the prospective genius of Bacon. The astronomy of Sir Isaac Newton is no exception to this general remark: All that mere observation could do to determine the movements of the heavenly bodies, had been accomplished by the star-gazers who preceded him; and the law of gravitation, which he afterwards applied to the planetary system, was first calculated and ascertained by experiments personned up-

on Substances which were entirely at his disposal.

It will scarcely be denied, either, that it is almost exclusively to this department of experiment that Lord Bacon has directed the attention of his followers. His fundamental maxim is, that knowledge is power; and the great problem which he constantly aims at refolving is, in what manner the nature of any substance or quality may, by experiment, be so detected and asgertained as to enable us to manage it at our pleasure. The greater part, of the novum organum accordingly is taken up with rules and examples for contriving and conducting experiments; and the chief advantage which he feems to have expected from the progress of these inquiries, appears to be centred in the enlargement of man's dominion over the material universe which he in-To the mere observer, therefore, his laws of philosophising, except where they are prohibnory laws, have but little application; and to fuch an inquirer, the rewards of his philosophy, scarcely appear to have been promised. It is evident indeed that no direct utility can result from the most accurate observation of occurrences which we cannot controll, and that for the uses to which such observation may afterwards be turned, we are indebted not fo much to the observer, as to the person who discovered the application. It also appears to be pretty evident that in the art of observation itself, no very great or sundamental improvement can be expected. Vigilance and attention are all that, can ever be required in an observer; and though a talent for methodical arrangement may facilitate to others the study of the facts that have been collected, it does not appear how our knowledge of these facts can be increased by any new, method of describing them. Facts that we are unable to modify or direct, in short, can only be the objects of observation; and observation. can only inform us that they exist, and that their succession anpears to be governed by certain general laws,

In the profer experimental philosophy, every acquisition of knowledge is an increase of power; because the knowledge is necessarily derived from some intentional disposition of materials, we may always command in the same manner. In the

philosophy

philosophy of observation, it is merely a gratification of our curiosity. By experiment, too, we generally acquire a pretty correct knowledge of the causes of the phenomena we produce, as we ourselves distribute and arrange the circumstances upon which they depend; while in matters of mere observation, the ailignment of causes must always be in a good degree conjectural, inasmuch as we have no means of separating the preceding phenomena, or deciding otherwise than by analogy to which of them

the succeeding event is to be attributed.

Now, it appears to us to be pretty evident that the phenomena of the human mind are almost all of the latter description. feel, and perceive, and remember, without any purpose or contrivance of ours, and have evidently no power over the mechanism by which those functions are performed. We may observe and distinguish those operations of mind, indeed, with more or less attention or exactness; but we cannot subject them to experiment, nor alter their nature by any process of investigation. We cannot decompose our perceptions in a crucible, nor divide our fensations with a prism; nor can we, by art and contrivance, produce any combination of thoughts or emotions, besides those with which all men have been provided by nature. No metaphysician expects by analysis to discover a new power, or to excite a new fenfation in the mind, as a chemist discovers a new earth or a new metal; nor can he hope, by any process of synthesis, to exhibit a mental combination different from any that nature has produced in the minds of other persons. The science of metaphysics, therefore, depends upon observation, and not upon experiment; and all reasonings upon mind proceed accordingly upon a reference to that general observation which all men are supposed to have made, and not to any particular experiments, which are known only to the inventor.—The province of philofophy in this department, therefore, is the province of observation only; and in this department the greater part of that code of laws which Bacon has provided for the regulation of experimental induction, is plainly without authority. In metaphylics, certainly knowledge is not power; and instead of producing new phenomena to elucidate the old by well-contrived and well-conducted experiments, the most diligent inquirer can do no more than register and arrange the appearances, which he can neither account for nor controul.

But though our power can in no case be directly increased by the most vigilant and correct observation, our knowledge may often be very greatly extended by it. In the science of mind, however, we are inclined to suspect that this is not the case From the very nature of the subject, it seems necessarily to sol

low, that all men must be practically familiar with all the functions and qualities of their minds, and with almost all the laws by which they appear to be governed. Every one knows exactly what it is to perceive and to feel, to remember, imagine, and believe; and though he may not always apply the words that denote these operations with perfect propriety, it is not possible to suppose that any one is ignorant of the things. Even those laws of thought, or connexions of mental operation, that are not fo commonly stated in words, appear to be univerfally known, and are found to regulate the practice of those who never thought of enouncing them in an abstract proposition. A man who never heard it afferted that memory depends upon attention, yet attends with uncommon care to any thing that he wishes to remember; and accounts for his forgetfulness, by acknowledging that he had paid no attention. A groom, who never heard of the affociation of ideas, feeds the young war-horse to the found of a drum; and the unphilolophical artists that tame elephants and train dancing dogs, proceed upon the fame obvious and admitted principle. The truth is, that as we only know the exist-*ence of mind by the exercise of its functions according to certain laws, it is impossible that any one should ever discover or Firing to light any functions or any laws of which men would *admit the existence, unless they were previously convinced of their operations on themselves. A philosopher may be the first to state these laws, and to describe their operation distinctly in words; but men must be already familiarly acquainted with them in reality, before they can affent to the justice of his descriptions.

For these reasons, we cannot help thinking that the labours of the metaphysician, instead of being assimilated to those of the chemist or experimental philosopher, might, with less impropriety, be compared to those of the grammarian who arranges into technical order the words of a language which is spoken familiarly by all his readers; or of the artist who exhibits to them a correct map of a district with every part of which they were previously acquainted. We acquire a perfect knowledge of our own minds without study or exertion, just as we acquire a perfect knowledge of our native language or our native parish; yet we cannot, without much study and reflection, compose a grammar of the one, or a map of the other. To arrange in correct order all the particulars of our practical knowledge, and to fet down, without omission and without distortion, every thing that we actually know upon a subject, requires a power of abstraction, Mection, and disposition, that falls to the lot of but few. ficience of mind, perhaps, more of those qualities are redirect than in any other; but it is not the less true of this, than of all the rest, that the materials of the description must always be derived from a previous acquaintance with the subject—that nothing can be set down technically that was not practically known—and that no substantial addition is made to our knowledge by a scientistic distribution of its particulars. After such a systematic arrangement has been introduced, and a correct nomenclature applied, we may indeed conceive more clearly, and will certainly describe more justly, the nature and extent of our information; but our information itself is not really increased, and the consciousness by which we are supplied with all the materials of our restections, does not become more productive by this dis-

position of its contributions.

But though we have been induced in this way to express our scepticism, both as to the probable improvement and practical utility of metaphysical speculations, we would by no means be understood as having afferted that these studies are absolutely without interest or importance. With regard to perception, indeed, and some of the other primary functions of mind, it seems now to be admitted, that philosophy can be of no use to us, and that the profoundest reasonings lead us back to the creed and the ignorance of the vulgar. As to the laws of affociation, however, the case is somewhat different; instances of the application of fuch laws are indeed familiar to every one, and there are few who do not of themselves arrive at some impersect conception of their general limits and application; but that they are sooner learned, and more steadily and extensively applied when our observations are assisted by the lessons of a judicious instructor, feems scarcely to admit of doubt; and though there are no errors of opinion perhaps that may not be corrected without the help of metaphylical principles, it cannot be disputed, that an habitual acquaintance with these principles leads us more directly to the fource of fuch errors, and enables us more readily to explain and correct fome of the most formidable aberrations of human understanding. After all, perhaps, the chief value of fuch speculations will be found to consist in the exercise which they afford to the faculties, and the delight which is produced by the consciousness of intellectual exertion. Upon this subject, we gladly borrow from Mr Stewart the following admirable quotations.

An author well qualified to judge, from his own experience, of whatever conduces to invigorate or to embellish the understanding, has beautifully remarked, that "by turning the soul inward on itself, its forces are concentred, and are fitted for stronger and bolder slights of science; and that, in such pursuits, whether we take, or whether we lose the game, the chase is certainly of service." In this respect, the philosophy of the mind (abstracting entirely from that preeminence which

which belongs to it in confequence of its practical applications) may claim a diftinguished rank among those preparatory disciplines, which another writer of equal talents has happily compared to "the crops which are raised, not for the take of the barvest, but to be ploughed in

as a dressing to the land. " p. 166. 167.

In following out his observations on the scope and spirit of Dr Reid's philosophy, Mr Stewart does not present his readers with any general outline or fummary of the peculiar doctrines by which it is principally distinguished. This part of the book indeed appears to be addressed almost exclusively to those who are in some degree initiated in the studies of which it treats, and consists of a vindication of Dr Reid's philosophy from the most important objections that had been proposed to it by his antagonists. The first is made by the materialist, and is directed against the gratuitous assumption of the existence of mind. To this Mr Stewart answers with irrefistible force, that the philosophy of Dr Reid has in reality no concern with the theories that may be formed as to the causes of our mental operations, but is entirely confined to the investigation of those phenomena which are known to us by internal consciousness, and not by external perception. On the theory of Materialism itself, he makes some admirable observations: and after having stated the perceptible improvement that has lately taken place in the method of confidering those intellectual phenomena, he concludes with the following judicious and eloquent observations.

The authors who form the most conspicuous exceptions to this gradual progress, consist chiefly of men, whose errors may be easily accounted for, by the prejudices connected with their circumscribed habits of observation and inquiry; --- of Physiologists, accustomed to attend to that part alone of the human frame, which the knife of the Anatomist can lay open; or of Chemists, who enter on the analysis of Thought, fresh from the decompositions of the laboratory; carrying into the Theory of Mind itself (what Bacon expressively calls) " the smoke and tarnish of the furnace. " Of the value of such pursuits, none can think met highly than myself; but I must be allowed to observe, that the most diffinguished preeminence in them does not necessarily imply a capacity of collected and abiliracted reflection, or an understanding superior to the prejudices of early affociation, and the illusions of popular language. I will not go to far as Cicero, when he afcribes to those who possess these advantages, a more than ordinary vigour of intellect: 16 Magni est ingenii revocare mentem a sensibus, et cogitationem a consuctudine. abducere," I would only claim for them, the merit of patient and cautious research; and would exact from their autagonids the same qua-

lifications. ' p. 110-111.

The second great objection that has been made to the doctrines of Dr Beid is, that they tend to damp the ardour of philosophical

phical curiofity, by stating as ultimate facts many phenomena which might be resolved into simpler principles, and perplex the science of mind with an unnecessary multitude of internal and unaccountable properties. * It is certainly better to damp the ardour of philosophers, by exposing their errors and convincing them of their ignorance, than to gratify it by subscribing to their blunders. It is one step towards a true explanation of any phenomenon, to expose the fallacy of an erroneous one; and though the contemplation of our failures may render us more diffident of fuccess, it will probably teach us some lessons that are far from diminishing our chance of obtaining it. To the charge of multiplying unnecessarily the original and instinctive principles of our nature, Mr Stewart has not made quite fo satisfactory an answer. The greater part of what he says indeed upon this fubicat, is rather an apology for Dr Reid, than a complete jute for cation of him. In his classification of the active powers, he actmits that Dr Reid has multiplied, without necessity, the number of our original affections, and that in the other parts of his doctrine, he has manifested a leaning to the same extreme. It would have been better, perhaps, if Mr Stewart had rested the defence of his author upon those concessions, and upon the general. reasoning with which they are very skilfully associated to prove the superior fasety and prudence of this tardiness to generalise and allimilate; for, with all our deference for the talents of theauthor, we find it impossible to agree with him in those particular. instances in which he has endeavoured to expose the injustice of the accufation. After all that Mr Stewart has faid, we can still see no reason for admitting a principle of credulity, or a principle of veracity, in human nature; nor can we discover any, fort of evidence for the existence of an instinctive power of interpreting natural figns.

Dr Reid's only reason for maintaining that the belief we commonly give to the testimony of others is not derived from reasoning and experience, is, that this credulity is more apparent and excessive in children, than in those whose experience and reason is mature. Now, to this it seems obvious to answer, that the experience of children, though not extensive, is almost always entirely uniform in favour of the veracity of those about them. There can scarcely be any temptation to utter salshood to an infant; and even if that should happen, there is seldom such a degree of memory or attention as would be necessary for its detection. In all cases besides, it is admitted that children learn

the

^{*} We have here classed under one head the objections which Mr. Stewart distinguishes into two.

the general rule, before they begin to attend to the exceptions; and it will not be denied that the general rule is, that there is a connexion between the affertions of mankind and the realities of which they are speaking. Falsehood is like those irregularities in the construction of a language, which children always over-

look for the fake of the general analogy.

The principle of veracity is in the same situation. Men speak and affert, in order to accomplish some purpose; but if they did not generally speak truth, their affertions would answer no purpose at all-not even that of deception. 'To speak falsehood, too, even if we could suppose it to be done without a motive, requires a certain exercise of imagination and the inventive faculties, which is not without labour: truth is suggested spontaneously, not by the principle of veracity, but by our consciousness and memory. Even if we were not rational creatures, therefore, but spoke merely as a consequence of our sensations, we would speak truth much oftener than falsehood; but being rational, and addressing ourselves to other beings with a view of influencing their conduct or opinion, it follows as a matter of necessity, that we must almost always speak truth: even the principle of credulity would not otherwise be sufficient to render it worth while for us to speak at all.

With regard to the principle by which we are enabled to interpret the natural figns of the passions, and of other connected events, we cannot help entertaining a similar scepticism. There is no evidence, we think, for the existence of such a principle; and all the phenomena may be solved by the help of memory and the association of ideas. The sinductive principle is very nearly in the same predicament; though the full discussion of the argument that might be maintained upon that subject, would occupy more room than we can now spare.

After some very excellent observations on the nature and the sunctions of instinct, Mr Stewart proceeds to consider, as the last great objection to Dr Reid's philosophy, the alleged tendency of his doctrines, on the subject of common sense, to fanction an appeal from the decisions of the learned to the voice of the multitude. Mr Stewart, with great candour, admits that the phrase was unluckily chosen, and that it has not always been employed with perfect accuracy, either by Dr Reid or his sollowers; but he maintains, that the greater part of the truths which Dr Reid has referred to this authority, are in reality originally and unaccountably impressed on the human understanding, and are necessarily implied in the greater part of its operations. These, he says, may be better denominated, Funcional laws of belief; and he exemplifies them by such propositions

fitions as the following: 'I am the same person to-day that I was yesterday.—The material world has a real existence.—The stuture course of nature will resemble the past.' We shall have occasion immediately to offer a few observations on some of these

propositions.

With these observations Mr Stewart concludes his defence of Dr Reid's philosophy: but we cannot help thinking that there was room for a farther vindication, and that some objections may be stated to the system in question, as formidable as any of those which Mr Stewart has endeavoured to obviate. We shall allude very shortly to those that appear the most obvious and important. Dr Reid's great achievement was undoubtedly the subversion of the Ideal system, or the confutation of that hypothesis which represents the immediate objects of the mind in perception, as certain images or pictures of external objects conveyed by the senses to the sensorium. This part of his task, it is now generally admitted that he has performed with exemplary diligence and complete fuccess; but we are by no means fo entirely fatisfied with the uses he has attempted to make of. his victory. After confidering the subject with some attention, we must confess that we have not been able to perceive how the destruction of the Ideal theory can be held as a demonstration of the real existence of matter, or a consutation of all those reasonings which have brought into question the popular faith upon this subject. The theory of images and pictures, in fact, was in its original state more closely connected with the supposition of a real material prototype, than the theory of direct perception; and the sceptical doubts that have since been suggested, appear to us to be by no means exclusively applicable to the former hypothesis. He who believes that certain forms or images are actually transmitted through the organs of sense to the mind, must believe, at least, in the reality of the organs and the images, and probably in their origin from real external existences. He who is contented with stating that he is conscious of certain sensations and perceptious, by no means assumes the independent existence of matter, and gives a safer account of the phenomena than the idealist.

Dr Reid's fole argument for the real existence of a material world, is sounded on the irresistible belief of it that is implied in perception and memory; a belief, the soundations of which, he seems to think, it would be something more than absurd to call in question. Now, the reality of this general persuasion or belief, no one ever attempted to deny. The question is only about its justness or truth. It is conceiveable, certainly, in every ease, that our belief should be erroneous; and there can be

nothing

nothing abfurd in fuggesting reasons for doubting of its conformity with truth. The obstinacy of our belief, in this instance, and its constant recurrence, even after all our endeavours to familiarize ourselves with the objections that have been made to it, are not absolutely without parallel in the history of the human faculties. All children believe that the earth is at rest, and that the fun and the fixed stars perform a diurnal revolution round it. They also believe that the place which they occupy on the furface is absolutely the uppermost, and that the inhabitants of the opposite surface must be suspended in an inverted polition. Now, of this univerfal, practical, and irrelistible belief, all persons of education are easily disabused in speculation, though it influences their ordinary language, and continues, in fact, to be the habitual impression of their minds. In the same way, a Berkleian might admit the constant recurrence of the illusions of sense, although his speculative reason were sufficiently convinced of their fallacy.

The phenomena of dreaming and of delirium, however, appear to afford a fort of experimentum crucis to demonstrate that a real external existence is not necessary to produce sensation and perception in the human mind. Is it utterly abfurd and ridiculous to maintain, that all the objects of our thoughts may be ' fuch stuff as dreams are made of?' or that the uniformity of Nature gives us some reason to presume that the perceptions of maniacs and of rational men are manufactured, like their organs, out of the same materials? There is a species of infanity known among medical men by the epithet notional, in which there is frequently no general depravation of the reasoning and judging faculties, but where the disease consists entirely in the patient mistaking the objects of his thought or imagination for real and present existences. The error of his perceptions, in such a case, is only detected by comparing them with the perceptions of other people; and it is evident that he has just the same reason to impute error to them, as they can have individually for imputing it to him. The majority, indeed, necessarily carries the point as to all practical confequences; but is there any abfurdity in alleging that we have no internal, infallible, and necessary affurance of that in which the internal conviction of an individual must be supported, and may be overruled by the testimony of his fellow-creatures?

Dr Reid has himself admitted, that we might probably have been so made, as to have all the perceptions and sensations which we now have, without any impression on our bodily organs at all. It is surely altogether as reasonable to say, that we have had all those perceptions, without the aid or inter-

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vention of any material existence at all. Those perceptions might still have been accompanied with a belief, too, that would not have been less universal or irresistible for being utterly without a foundation in reality. In short, our perceptions can never afford any complete or irresirgable proof of the real existence of external things; because it is easy to conceive that we might have such perceptions without them. We do not know, therefore, with certainty, that our perceptions are ever produced by external objects; and in the cases to which we have just alluded, we find perception and its concomitant belief, where we do know with certainty that it is not produced by any external existence.

It has been faid, however, that we have the fame evidence for the existence of the material world, as for that of our own thoughts or conceptions; as we have no reason for believing in the latter, but that we cannot help it; which is equally true of the former. Now, this appears to us to be very inaccurately Whatever we doubt, and whatever we prove, we must argued. plainly begin with consciousness: that alone is certain—all the rest is inference. Does Dr Reid mean to affert, that our perception of external objects is not a necessary preliminary to any proof of their reality, or that our belief in their reality is not founded upon our consciousness of perceiving them? Our perceptions, then, and not the existence of their objects, is what we cannot help believing; and it would be nearly as reasonable to fay that we must take all our dreams for realities, because we cannot doubt that we dream, as it is to affert that we have the fame evidence for the existence of an external world, as for the existence of the sensations by which it is suggested to our minds.

We dare not venture farther into this subject; yet we cannot abandon it without observing, that the question is entirely a matter of philosophical and abitract speculation, and that by far the most reprehensible passages in Dr Reid's writings, are those in which he has represented it as otherwise. When we confider, indeed, the exemplary candour, and temper, and modefty, with which this excellent man has conducted the whole of his speculations, we cannot help wondering that he should ever have forgotten himself so far as to descend to the vulgar raillery which he has addressed, instead of argument, to the abettors of the Berkleian hypothesis. The old joke, of the sceptical philosophers running their nofes against posts, tumbling into kennels, and being fent to a madhouse, is repeated at least ten times in different parts of Dr Reid's publications, and really seems so have been considered as an objection not less forcible than support Billiritation Pality Libra facetions.

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facetious. Yet Dr Reid furely could not be ignorant that those who have questioned the reality of a material universe, never affected to have perceptions, ideas, and sensations of a different nature from other people. The debate was merely about the origin of these sensations, and could not possibly affect the conduct or feelings of the individual. The sceptic, therefore, who has been taught by experience that certain perceptions are connected with unpleasant sensations, will avoid the occasions of them as carefully as those who look upon the objects of their perceptions as external realities. Notions and sensations he cannot deny to exist; and this limited faith will regulate his conduct exactly in the same manner as the more extensive creed of his antagonists. We are pertuaded that Mr Stewart would reject the aid of such an argument for the existence of an external world.

The unexpected length to which these observations have extended, deters us from profecuting any farther our remarks on Dr Reid's philosophy. The other points in which it appears to us that he has left his svitam vulnerable are, his explanation of our idea of cause and effect, and his speculations on the question of liberty and necessity. In the former, we cannot help thinking that he has dogmatifed, with a degree of confidence which is fearcely justified by the cogency of his arguments, and has endeavoured to draw ridicule on the reasoning of his antagonists, by illustrations that are utterly inapplicable. In the latter, he has made fomething more than a just use of the prejudices of men and the ambiguity of language, and has more than once been guilty, if we be not mistaken, of what, in a less respectable author, we should not have scrupled to call the most paipable fophistry. We are glad that our duty does not require us to enter into the discussion of this very perplexing controversy; though we may be permitted to remark, that it is fomewhat extraordinary to find the dependence of human actions on motives to politively denied by those very philosophers with whom the doctrine of causation is of such high authority.

We proceed now to the last section of Mr Stewart's interesting publication, which contains little more than a short and simple account of the studies and occupations of Dr Reid's latter years, and an admirable delineation of his character. His health had, all his life, been uncommonly vigorous, and, except a slight decay of memory, he appears to have retained all, his faculties and affections unimpaired to the age of eighty-seven. A few months before his death, which happened in 1797, he read to a literary society a distinct and philosophical treatise on the effects produced by old age on the muscular motions; thus persevering

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persevering to the last in those habits of self-observation which had constituted the business and the glory of his life.

The character of Dr Reid is drawn by Mr Stewart, in colours particularly lively and attractive. We believe it to be entirely just, at the same time that we are of opinion that there is scarcely any thing wanting in the following passage to complete the pic-

ture of a true philosopher and an excellent man.

The most prominent features of his character were,—intrepid and inflexible rectitude;—a pure and devoted attachment to truth;—and an entire command (acquired by the unwearied exertions of a long life) over all his passions. Hence, in those parts of his writings where his subject forces him to dispute the conclusions of others, a scrupulous rejection of every expression calculated to irritate those whom he was anxious to convince, and a spirit of liberality and good-humour towards his opponents, from which no asperity on their part could provoke him, for a moment, to deviate.

In private life, no man ever maintained, more eminently or more uniformly, the dignity of philosophy; combining, with the most amiable modesty and gentleness, the noblest spirit of independence. The only preferments which he ever enjoyed, he owed to the unsolicited favour of the two learned Bodies who successively adopted him into their number; and the respectable rank which he supported in society, was the well-earned reward of his own academical labours. The studies in which he delighted, were little calculated to draw on him the patronage of the great; and he was unskilled in the art of courting advancement, by "fashioning his doctrines to the varying hour."

As a philosopher, his genius was more peculiarly characterized by a found, cautious, distinguishing judgement; by a fingular patience and perfeverance of thought; and by habits of the most fixed and concentrated attention to his own mental operations;—endowments which, although not the most splendid in the estimation of the multitude, would seem entitled, from the history of science, to rank among the rarest gifts

of the mind.

With these habits and powers, he united (what does not always accompany them) the curiosity of a naturalist, and the eye of an observer; and, accordingly, his information about every thing relating to physical science, and to the useful arts, was extensive and accurate. His memory for historical details was not so remarkable; and he used sometimes to regret the impersect degree in which he possessed this faculty. I am inclined, however, to think, that in doing so, he underrated his natural advantages; estimating the strength of memory, as men commonly do, rather by the recollection of particular facts, than by the possession of those general conclusions, from a subserviency to which such facts derive their principal value.

Towards the close of life, indeed, his memory was much less vigorous than the other powers of his intellect; in none of which could I ever perceive any symptom of decline. His ardour for knowledge, too, voz. us. No. 6.

remained unextinguished to the last; and, when cherished by the society of the young and inquisitive, seemed even to increase with his years. What is still more remarkable, he retained, in extreme old age, all the sympathetic tenderness, and all the moral sensibility of youth; the liveliness of his emotions, wherever the happiness of others was concerned, forming an affecting contrast to his own unconquerable simmess under the severest trials.

Nor was the fensibility which he retained, the scliss and afteril offspring of taste and indolence. It was alive and active, wherever he could command the means of relieving the distresses, or of adding to the comforts of others; and was often selt in its effects, where he was unteen and unknown:—Among the various proofs of this, which have happened to fall under my own knowledge, I cannot help mentioning particularly (upon the most unquestionable authority) the secrecy with which he conveyed his occasional benefactions to his former parishioners at New Muchar, long after his establishment at Glasgow. One donation, in particular, during the searcity of 1782,—a donation which, notwith-standing all his precautions, was distinctly traced to his beneficence,—might perhaps have been thought disproportionate to his limited income, had not his own simple and moderate habits multiplied the resources of his humanity. P. 181-187.

Notwithstanding the length of the preceding extract, we cannot take our leave of this very interesting publication, without laying before our readers the paragraph in which Mr Stewart announces his intention of declining, from this time forward, the duties of a biographer. The whole passage is marked with that grave and pathetic cloquence with which a man of superior genius is commonly found to speak of himself; and one part of it reminds us forcibly of those sine prophetic sentences in which Miltor, in his earlier writings, announces to the world his assur-

ance of a more exalted deflination.

In concluding this Memoir, I trust I shall be pardoned, if, for once, I give way to a personal feeling, while I express the satisfaction with which I now close, finally, my attempts as a Biographer. which I have already made, were imposed on me by the irrefistible calls of duty and attachment; and, feeble as they are, when compared with the magnitude of subjects so splendid and so various, they have encroached deeply on that final portion of literary leifure which indifpenfable engagements allow me to command. I cannot, at the fame time, be infentible to the gratification of having endeavoured to affociate, in some degree, my name with three of the greatest which have adorned this age; happy if, without deviating intentionally from truth, I may have succeeded, however imperfectly, in my wish, to gratify, at once, the curiofity of the public, and to footh the recollections of furviving. friends.—But I, too, have defigns and enterprizes of my own; and the execution of these (which, alas! swell in magnitude, as the time for their accomplishment hastens to a period) claims, at length, an undivided attention.

attention. Yet I should not look back on the past with regret, if I could indulge the hope, that the facts which it has been my province to record,—by displaying those fair rewards of extensive usefulness, and of permanent same, which talents and industry, when worthily directed, cannot fail to secure,—may contribute, in one single instance, to softer the proud and virtuous independence of genius; or, amidst the gloom of poverty and solitude, to gild the distant prospect of the unstriended scholar, whose laurels are now slowly ripening in the unnoticed privacy of humble life. ' p. 204-206.

ART. II. Voyage de Trois Mois en Angleterre, en Ecoffe. et en Irlande, pendant l'été de l'an IX (1801). Par Marc Auguste Pictet, Profeffeur de Philosophie dans l'Academie de Geneve, Associé de l'Institut National, Membre des Societés Royales de Londres, &c. &c. 8vo. pp. 340. Geneva. 1802.

A BOOK of travels is tried by a very severe test, when it is read in the country which it professes to describe. A foreigner can searcely avoid committing some mistakes, which a native will detect; and, laying projudices on both sides out of the question, will probably enlarge most upon those subjects that stand least in

need of explanation to the people whom they concern.

M. Picter, however, is not an ordinary traveller; and it would be doing him injuffice to confider his book as intended to convey any general idea of the manners or appearance of the countries M. Pictet is a philosopher, and had been in Enghe has vifited. land before: the object of his prefent expedition therefore was, not to acquire exact or comprehensive knowledge of the British dominions, but to visit and converse with a few of our eminent men, and to inspect some of the most remarkable of our public inflitutions and natural curiofities. Inflead of a general map of the country, therefore, his book prefents us with detailed reprefentations of a few infulated points. A complete account of the remarkable things in a country would be a very good account of the country itieli; but the things to which M. Pictet has attended, are neither very numerous, nor, in our opinion, altogether judiciously felected. Though mineralogy was one of his leading objects, he neither vifited Derbythire nor Cornwall; and has hazarded various strictures upon the learning and system of education in England, without having thought it worth while to visit either of the Universities.

Though this work is written in the form of letters, it can scarcely lay claim to any of those indulgences that are due to a private correspondence. M. Pictet's letters are not addressed to his individual friends, but to the society of his fellow-labourers

in the Bibliotheque Britannique at Geneva, by whom they were originally inferted in that journal as fast as they were received. Considering them, therefore, as having been written with a view to publication, we cannot help saying, that they appear to us to be very slight and superficial performances; and that they contain a great deal too much about the author's own feelings and affections. Personalities of this kind are always but awkwardly associated, we think, with differentions upon natural philosophy; and, at all events, we do not think very savourably of M. Pictet's talents for inditing a 'Sentimental Journey.' His sits of tenderness and vivacity generally appear to us as far from the gracefulness of nature, as from the respectability of science.

But though this book does not always impress us with those sentiments which should be excited by the work of a philosopher, it is impossible to be out of humour with the author: he is the politest foreigner, indeed, that has lately spoken of our country, and is not only perfectly courteous, but absolutely loving to every person whom he has occasion to mention. There is a character of cheerfulness and good temper, too, impressed upon the whole work, that conciliates our effect for the author; and whatever may be thought of his profundity, it is impossible to accuse him

of being tedious.

The first letter contains a long eloge of Count Rumford, with a particular account of the Royal Institution of London, tranfcribed from the first report of the directors. The next, which is dated from Edinburgh, contains the rest of the author's observations in London, and is chiefly occupied with a description of the effects produced by the gazeous oxyd upon a felect party of liteterati to whom it was administered by Mr Davy. It contains also the history of M. Picter's visit to the country seat of Sir Jofeph Banks, where he feems to have attached himself, in a particular manner, to an old blind beaver, who nibbled green twigs with fingular alacrity, and gave figns of great fensibility to the careffes he received. At York, where M. Pictet passes a day, the experiment of the gazeous oxyd is repeated, and the power of the imagination over the nervous lystem is illustrated very successfully, by administering a quantity of common air to a young lady, instead of the gas; upon which she falls into an hysterical fit, exactly fimilar to what the had formerly experienced from respiring the gas itself.

M. Pictet moves with fuch velocity, that he has never leifure to give an account of a place, till he has left it fifty miles behind him. His third letter, accordingly, dated from Glasgow, contains the description of his entry into Scotland, and of his proceedings at Edinburgh. M. Pictet had scarcely crossed the Bor-

der, when his attention was attracted to the difinterested and unfuspecting character of the Scots. An apothecary at Haddington cured his valet of the colic, by a judicious compound of ather and laudanum (both very costly medicines), and would receive no payment: and the master of a tavern in Edinburgh, lent M. Pictet a great-coat in a rainy night, without insisting upon any security for its return. We could commemorate many other instances of the same nature, if we were not apprehensive of injuring M. Pictet's credit among the prejudiced insidels of the South.

On his arrival at Edinburgh, M. Pict t was inexpressibly afflicted to find that Professor D. Stewart had just left it; but was soon consoled, by meeting with Sir James Hall.

· ----uno avulso (says he) non desicit alter

Sir James showed every fort of attention to the philosophical ftranger; and made a laudable effort to convert the redacteur of the Bibliotheque Britannique to the faith of Dr Hutton. find it difficult to believe, that M. Pictet is a great geologist. confounds the fystem of Dr Hutton with that of Lazaro Nicco (p. 61.): he proposes to improve the former theory (p. 72.), by combining the operation of water with that of heat, although this combination is the very basis upon which it already stands: and, in p. 232, &c. he announces, as a discovery and original fuggestion of his own, that very explanation of inflected and inclined strata, which has been fo diffinctly propounded in the elcmentary writings of the Huttonians. He is delighted with the term whin, or whinstone, which appears to be quite new to him; but is a little perplexed in the application of it to substances that feemed to possels its specific qualities in unequal proportions. Upon this occasion he fortunately bethinks himself of the new chemical nomenclature, and determines, upon the strength of that analogy, to denominate fuch fubitances, in future, according to their affinity to the true genuine whin, whinneux, whinniques, and whinnatres. 'After this discovery,' says he, 'I found myself much more at my ease!' M. Pictet accompanied Sir James Hall to all the remarkable mineralogical stations on the coast near Edinburgh, and has described their appearances, on the whole, with great clearness and fidelity. Although it was vacation in the University, M. Pictet hears enough of the system of education, to censure the Professors for not examining their pupils daily, as they do in the Academy of Geneva. In the prefent state of soviety, we must teach grown-up youths in the way in which they choose to be taught; and they do not choose to answer questions like children, in the hearing of a circle of strangers. The dispo-U 3 fition

fition of our nation is averse from this kind of exhibition; and the attendance of the pupils on the lectures is not enforced in our

Universities by any regular discipline.

During his short stay in Edinburgh, M. Pictet saw some learned men; but was most captivated with the celebrated Professor of Mathematics; because, upon being shown a model of the environs of Geneva, the Professor, without ever having been there, was able to trace and point out all the remarkable parts with the utmost precision, merely from his recollection of the excellent defcriptions of Saussure. This anecdote does great credit both to M. Saussure and to Professor Playfair; but we do not exactly comprehend M. Pictet, when he introduces it under the name of a ' Psychological Experiment.' In leaving those newly acquired friends, M. Pictet undergoes what he calls 'a moral electrifation; and laments that the pain of separation should always be exactly commensurate with the pleasure which the society had af-This lamentation is regularly introduced upon every future occasion of the same kind, and is repeated, we believe, ten times in the course of the work.

From Port-Patrick we have M. Picter's account of Glasgow, which, he says, ' is the Birmingham, and the Manchester, and the Oxford of Scotland.' Here he is introduced to Dr Cleghorn, towards whom he immediately feels ' that moral assinity which acts upon souls, as the power of attraction does upon matter.' The account of the city, which he announces with so much magnificence, is extremely scanty. The hospital is the only object upon which he enlarges; but to make amends, there is annexed a very full description of a large iron-soundery in the neighbourhood. We are afraid our readers would receive but little entertainment from the description of the boring of cannon, the roaring of bellows, and the roasting of ores; with all which, however, M. Pictet was so much delighted, that the night came ' upon him, he says, before his ecstacy was at an end.'

The interval from Glafgow to Port-Patrick is passed over without any observation. On his arrival there, he found that the packet had failed, and he was obliged to wait a day; upon which misadventure he is pleased to remark, that 'if fortune imagines she can put him out of humour, she is greatly mistaken; for he always makes it a point to find out, that what she meant to plague him with was the very thing that he wanted:' So he walked out among the rocks, and among some sheep that were feeding without a shepherd, and seemal to be associated (he says) at his appearance.

In this place M. Pictet is soized with a fit of sentimental folly, of which we should scarcely have supposed him capable. It begins with informing us, that a fine evening generally disposes him

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to fadness, and terminates in the following ebullition of vanity and egotism, which we subjoin, for the edification of our readers. It will be recollected, that the person who makes this heroic soliloouy, is shuddering on the brink of a calm sea, a narrow arm of

which he proposes to ferry over in a fine July morning.

What have I to do to commit mysclf two several times to the mercy of that persidious element? Am I so situated, as to be obliged to expose myself to danger? or will the curiosity that draws me to those shores recompense me for the risks which I encounter? Away, cold calculations! What would have become of science, if her votaries had resused to venture every thing in her cause? And what, after all, is my danger, compared with that which was encountered by Banks, by Cook, and by so many other bold navigators, who have shed a glory on our times, and added to the treasures of our knowledge? Lo! I sollow in their track—at a great distance indeed—but still I sollow—and I feel a spark of the divine fire with which they were inspired. Let me go immediately!

He goes accordingly, and lands fafely on the Hibernian shore; where he observes that the people are worse clothed and lodged than in England, and picks up some ordinary bulls and anecdotes as he posts forward to the Giant's Causeway. At Port-Rush he is introduced to the Reverend Dr Richardson, who lectures him in mineralogy, entertains him hospitably, and attends him to the remarkable object he had come so far to inspect. There is some good and clear description in this part. We give the following

general account of the scenery in question.

The Giart's Caufeway is a fort of promontory, or rather a jettee, which slopes very gradually down to the sea, and terminates in a point, against which the waves were dashing with great violence. This jettee forms the left point of a semicircular bay, surrounded on all sides by a steep and losty coast, which displays, in all its extent, the smell specimens of basaltic phenomena—nothing is to be seen, on every hand, but groupes of columns in a vertical position, The guides have named those groupes after the common objects to which, under some points of view, they were supposed to bear a resemblance. One, for instance, near the bottom of the bay, is called the Organ, another the Weaver's Loom, and so on.

The Giant's Causeway, properly so called, is itself one of these groupes; and is so much lower than the rest, that the tops of the pillars are seen naked a little way above the level of the sea; while in the other groupes nothing is visible but their elevation. The uniform appearance of the upper end of these innumerable columns makes it appear, at a little distance, like a pavement of polygonic stones. Upon a nearer approach, they are found not to be altogether on the same level; and in walking along the Causeway, one is obliged to step continually up and down, as if on the steps of a stair.

All the pillars of which this fabric is composed are nearly in perfect contact with each other, without the interposition of any other subflance; in which they differ from the basaltic pile at Dunbar, where the intervals are filled, as I have already mentioned, with a kind of coarse jasper. There is no great variety in their sizes; the common diameter is from twelve to sisteen inches. The number of their angles is not uniform; there were some with eight, and some with sour; but the most common form was bexagonal.

After some more description, equally luminous and interesting, we are presented with a long mineralogical differtation from the pen of Dr Richardson, from which we do not know very well what to conclude, except that he the Reverend Dr Richardson is not of opinion that basaltes are of volcanic origin. From the Giant's Causeway M. Pictet's next great stage is to the house of Mr Edgeworth. He does not fail to conceive a warm and intimate friendship for this gentleman in the first quarter of an hour; and he describes his habitation with much perspicuity and animation. Mr Edgeworth, it feems, is a great mechanician; and his house feems to be furnished like Merlin's museum-nothing but springdoors, and screw bed-posts, and flying panels on all hands-and maps and manuscripts, and authors and speculations! M. Pictet thought himself in Paradise! After this enchanting visit, M. Pictet comes back to the villa of his travelling companion, who had prepared a great dinner for him, and invited a peer and a general, and a prieft, and Mr Malone, and a whole bevy of ladies. As the converfation, however, probably did not turn this day upon chemiftry or philosophy, M. Pictet found it intolerably stupid; and, after the party broke up, made the following address to his entertainers, which we really cannot praise for its politeness.

And so this is the way you live with your neighbours in the country! And you think it reasonable to throw away your time, your money, your physical and intellectual faculties, for the pleasure of being wearied to death, and for the profit of nobody but your wine-merchant

and confectioner!'

His Irish friends, M. Pictet affures us, received this rebuke with great humility; and only attempted to excuse themselves, by alleging, that the evil was irremediable, and that such was the

style of living in the country.

On a subsequent visit to the family of the Edgeworths, M. Pictet had the felicity of being introduced to the writer of the Treatise on Education; a work that, with all its redundancies and repetitions, is, in our opinion, incomparably superior to any modern production on the subject; and passed a day entirely to his satisfaction. The conversation, however, we apprehend, would not have been very amusing to an unlearned auditor. It set out, it seems, with this alarming interrogation: To what degree do

you conceive that a gazometer could determine the pressure suftained by an elastic sluid?' In return for all the civilities he experienced from this distinguished family, M. Pictet communicated to them 's feveral recipes for happiness,' the efficacy of which he had frequently proved on himself; and also presented them with the following method for measuring the quantity of happiness.

ness which they might be fortunate enough to procure.

'I then spoke to them,' says he, 'of that serpentine curve by which I have so often taken pleasure in representing my life. The axis of it is an horizontal line, which represents sleep; above this, is the region of happiness; below, that of forrow. At the end of every day, by asking myself, whether I should have been better pleased to have passed it in sleep, or as I have done, I determine on which side of the axis the co-ordinate of that day is to be described; and I trace it larger or smaller, according to my recollection of the degree of pleasure or pain I have experienced.'

We do not conceive it possible to trifle more scientifically.

In Dublin, M. Pictet visits Mr Kirwan, to whose geological speculations he listens with as much docility as he had done to those of his antagonists in Edinburgh. He gives a list of all the public institutions in that city, which seems to have been extracted from the last court kalendar; and alleges, that he saw in a bookseller's window a pamphlet with the following characteristic stitle: General Instructions for all Seconds in Duels, by a late

Captain in the Army.'

At Holy-Head, where he is detained a day, M. Pictet amuses himself with geological speculations, which lead him to a conclufion precisely the same with that of the Huttonian theorists, except that he accounts for the elevation of the strata, rather by the action of included vapour or steam, than by the mere expanfive force of an intense heat acting upon solid substances. the difficulties that press against the Huttonian theory, apply with redoubled force to the very imperfect edition which is here offered of it by M. Pictet. Of his journey to London we learn nothing, but that it was performed in forty-seven hours; and the next two letters are entirely occupied with the history of Count Rumford. 'The Count, indeed, appears to be the great hero of the piece; and every thing relating to him is delineated with a degree of minuteness not very suitable to a book of travels. or fix pages are first filled with a particular description of his house and furniture in Brompton-row, and then a long narrative of his life and adventures * is detailed in two letters, which terminate

^{*} This account is so very particular, that M. Pictet's readers are informed, that Count Rumford crossed from Dover to Boulogue in 1783,

minate with a full and complete lift of all his successive publica-

The fucceeding letter is a fort of guide to London, and contains the description of a great number of things, which are probably as interesting to strangers, as they are familiar to the natives. There is an account of Kensington gardens, and the Royal Menagerie, and the great porter brewhouses, and several objects of the same nature. The letter ends with a curious account of Lord Stanhope's discoveries in philosophy and the arts; the most remarkable of which, in our opinion, is a machine for reasoning by, which M. Pictet seems seriously to consider as a contrivance of singular utility. He adds, indeed, that, notwithstanding the great pams which the Noble inventor took to explain it to him, he does not pretend persectly to comprehend the principle upon which it is constructed!

The last letter contains an account of Wooburn Abbey, and the Bedford rams and bulls, together with a description of hawking, and an account of Sir John Seabright's pigeon-house. There are scarcely any remarks interspersed with with this part of M. Pictet's narrative; and there are but sew English readers, we believe, who would receive much information from an abstract of

the hurried observations of a foreign dillettanti.

Upon the whole, though this book be not exactly what we should have expected from a Prosessor of philosophy, it is evidently the production of a man of reading and observation. The rapidity of the author's movements, accounts for many of the defects that might be pointed out in it; and its substantial merits will probably be more favourably, as well as more fairly, estimated by those who are indebted to the work alone for their knowledge of the objects it describes.

ART.

^{*} avec ses chevaux qui sirent grand peur au celebre Gibbon; ' and that the said 'celebre Gibbon' appears to have sound out his merits during the passage, as he has accurately described him to Lord Sheffield as the soldier, philosopher, statesman Thompson.' Now, as it is of the statest consequence to vindicate the eloquent historian from the imputation of cowardice, as well as to preserve accuracy in narrations of so much importance, we have consulted the passage in the printed correspondence, and said, is, that the historian was by no means afraid of the Count's horses; and, 2, that he was not lucky enough to find out the Count's good qualities, inasmuch as he evidently speaks of him in a style of irreverent ridicule. The passage merely bears, that among his companions was 'Mr Secretary Colonel Admiral Philosopher Thompson, attended by three horses, who are not the most agreeable sellow-passengers.' Vol. I. p. 608,

ART. III. Lehrbuch der Mineralogie. Von L. A. Emmerling. Zweite Auflage Geiffen. Ersten Theils erster Band 1799. Zwieter Band 1802.

THE impulse which was given to mineralogy by the essay of Werner on the external characters of foilils, was propagated with rapidity over all those countries where the folid components of the globe had been previously investigated with any approximation to scientific accuracy. The difficulties of communication, which had hitherto been felt as infurmountable, appeared to be removed; and the new language which the science was taught to speak, seemed equally perspicuous and comprehensive. Succeeding improvements have shown that, though copious, it was not complete, and though perspicuous, not absolutely precife; but at the moment of its introduction, these defects, if perceived, were overlooked, and nothing opposed its general diffufion, but the prejudices of fome, the petulant ignorance of others, and the indolent aversion to change which is common to all. Over these obliacles it easily triumphed; and the mineralogifts of Germany eagerly demanded a work, in which the new mode of investigation and description might be applied in detail to every known species of minerals. These desiderata were comprehended in the lectures of Werner, pirated copies of which were obtained with a facility that fet every feribbler to work. change them by a few studied alterations, to mutilate them by intentional omillions, and to disfigure them by incongruous additions, was sufficient to constitute an original system of mineralo-All writers on this fubject, however, are not to be involved in this indifcriminating censure. The names of Estner and Reuss will probably be remembered as long as the science they have extended exists; and even Widenmann and Emmerling have some claims to gratitude and acknowledgement.

The mineralogy of Emmerling was originally published in three moderate-fized octave volumes—It laid claim to public attention as a more than usually accurate statement of the Wernerian doctrines; and the convenience of its form, and comprehension of its contents, recommended it very generally. Either the public approbation had exhausted the first edition, or the author, grown emulous of celebrity, anticipated the demand, and employed himfelf in preparing a second edition, illustrated by all the alterations and improvements that his information of the progress of mineralogy could furnish. Of this improved work, the first part appeared in 1799. We know not with what degree of anxiety the purchasers expected the second part; but it is devoutly to be hoped hat

that they were prepared to endure, with Christian resignation, the unexpected delay that enfued. An unlucky accident confined the author to his chamber, and with fickness came reflection. Every post informed him of the progress of mineralogy; every journal communicated some discovery; the tables of Karsten unhinged his systematic creed, and jumbled all he had written into chaos. New matter accumulated around him; his blunders called for correction, his omiffions for redrefs; and every article in his new edition appealed against its author. Unable to combat these combined annoyances, in an evil hour he announced his determination to write a fecond part of the first part, correcting all the errors the faid first part might contain. On the return of health, the determinations of fickness are generally forgotten; but to the book-making genius of a German, the compilation of the fecond part of a first part must have had irresistible attractions; and M. Emmerling, we have no doubt, beheld with infinite complacency its gradual expansion to more than the bulk of the original performance.

There have been authors who, conscious of the fallacy of the doctrines they had promulgated, have gallantly come forward and confessed their error. They have said, I have imposed a bad book on the world: let the purchasers return their copies, and I will present them with another book, in which I have endeavoured to correct my mistakes. Perhaps even the annals of Leipsic sair may record such instances. Has M. Emmerling acted thus? No. He comes forward, not gallantly, but unblushingly; and avows, rather than confesses his errors. I have written a book, he says, in which some things are right, and more wrong. Buy it—read it: then buy my second part, and learn from it how much of the first you must reject. You will find many chasms in the second part, because there are some articles allowed to remain in primitive impersection, and because a recapitulation of what is correct in the first part, would have superseded the

necessity of purchasing both.

Such are the views with which these volumes are composed; and those who have had resolution enough to go through them, are well entitled to say, that they are the views of a man who lets out his brains to a bookseller, goads his exhausted intellect to run over another sheet, and stumbles and halts along the course of literature.

There is some difficulty, our readers will perceive, in criticising a work of this description. Were we to proceed in the usual method, we might complain of errors and omissions in the volume, and afterwards find them rectified in the second. We are obliged to follow the plan our author indicates; and, after

mixed

after draining a nauseous draught from the first volume, to search laboriously for its antidote in the Dædalian perplexity of the second.

We will not exhaust the patience of our readers, by toiling with them through the Prefaces and Introduction, or through the prolix observations on the basis of oryclognostic classification, and on the nomenclature of minerals, in which the principles we endeavoured in a former paper * to prove improper, are defended and illustrated by examples derived from the grossly imperfect German nomenclature. After wading through feventyone pages of this preliminary matter, we arrive at the external characters of fossils, which are very unnecessarily dilated to a hundred pages more. Perhaps this prolixity may be deemed excuseable, when the importance of these external characters is confidered. We allow that the same number of pages and words might have been fo employed on them, as to render the time fpent in the perufal not unprofitable; and we must remember that these characters are the basis of the proud pre-eminence which the German nation has claimed in mineralogy. Let it, however, be remembered, that it is now near thirty years fince Werner published his celebrated system; and that although it has been modified by various minute alterations, the grand basis remains untouched. When we consider the immense changes which this period has produced in the science, it may not be unprofitable to examine how far these characters possess the precision and simplicity which is effential to science, and peculiarly demanded by the progressive state of mineralogy. Though the investigation is suggested by Emmerling, it is not confined to him. It affects the whole empire of German mineralogy, which is founded on this basis, and indissolubly united to it.

External characters are faid to possess a twosold advantage. They enable an adept, by a glance of the eye, and a touch of the finger, to determine the species of every mineral with certainty, and to convey, in a few words, such a description of that mineral, as may enable an observer in the most remote region to recognise it. To accomplish these desirable objects, it seems obvious, that in every description, an important difference should be made between those characters which are essential to species, and those which serve only to distinguish peculiar varieties. The description ought to be strictly limited to essential characters; and the varieties ought to be stated separately, as mere matter of illustration. Instead of this, however, we find, in the boasted system of Germany, the most perplexing and universal disorder. They can never abstract the general properties of a great class or order from those of the subordinate varieties. Essentials are

^{*} See vol. III. p. 50, &c.

mixed with the most trisling circumstances, and generic features confounded with the accidental peculiarities of individual specimens. All are announced with the same prolix solemnity. It is lest to the sagacity of the reader to select what is important; and if he finds that the aggregate of characters presents an indefinite or an incongruous image, it is also lest to him to discover the distinctive criteria.

In this way, we find colour elevated to the first rank among the external characters, and recorded with frivolous exactness. Forgetting that every mineral may possels every shade of colour. particular tints have been ignorantly appropriated; and when the same substance is found of an unregistered complexion, it is immediately fet down as a feparate species. Minerals have been most clumfily divided, according to their specific gravities, into light, middling heavy, heavy, and very heavy. By this felicitous division, the correctness of numbers is industriously avoided, and three fourths of known minerals are indifcriminately huddled into the class of middling heavy. By a similar and equally ingenious contrivance, the greater part of these are characterifed as ' fragile, not very cold, not very tenacious;' and the greater part of the characters, except such as refer to the accidents of irregular form, which vary in every specimen, are equally indiffinct and indefinite. Crystallifation is the only external character which an accurate observer finds unerring; but this must not be understood of general form, without regard to minute proportion. By measurement, it may be rendered supremely useful. But the German system disdains all mathematical aid; lumps all angles under the sweeping clauses of acute, obtule, and right angles; and blotting, with clumfy finger, the intervening degrees, renders it impossible to describe crystals correctly; and then declares, that the form of crystallifation affords but little aid to the inquiry into the species of mineral substances.

In order to illustrate and justify these general observations, it may not be improper to take a description from the author before us, and examine how far it is intelligible and illustrative, and how far these boasted characters tend to render it accurate and communicable. That the instance may be fair, we select the article Quartz, a mineral very distinctly characterised, and of continual occurrence. Such of our readers as have bestowed any attention on mineralogy, will be able to judge of the description from their knowledge of the substance.

Quartz,' fays Mr Emmerling, ' is found fnow white, reddish white, yellowish white, greenish white, and milk white;
passing through greyish white to yellowish grey, smoke grey,
bluish grey, reddish grey, and pearl grey. It is olive green,
honey yellow, yellowish brown, reddish brown, gellishower

brown, and black brown. It is flesh red, blood red, brick red, carmine red, which passes into rose red, light violet blue, Prussian blue, and indigo blue. In short, what colour of the rainbow is denied it?

Its irregular forms, however, are, if possible, still more various; for it is found massed, disseminated, in rounded fragments, in grains, in laminæ; it is stalactitic, globular, reniform, tubulated, specular, pectinated, cellular, spongiform, hollow from impressions, perforated, carious, and amorphous. We may now exclaim, Is there any form in which it is never found?

Its crystals, however, are all derived from fix-fided prisms, terminated by fragments of the same number of sides; but as no angles are measured, or proportions stated, no precise idea can be formed of the modification; and were they not distinguished by internal characters, they might be confounded with the carbonates of the barytes and lime, and with other crystals. The size of the crystals varies from ' very small to very large.'

The pseudomorphique crystals of quartz are various. It is found affurning the form of 'four-fided tables, lenses, rhomboids, 'cubes, octohædrons,' &c. &c. Nor are the Germans provided with any rules for distinguishing these from the true crystals.

tals, except the accidental roughness of their furfaces.

Its lustre varies in degree, and is fometimes the vitreous, and fometimes the fat lustre.

The fracture varies from 'the conchoidal with small cavities,' to 'the splintery with large splinters.' Sometimes it is 'imperfectly lamellar;' sometimes 'fibrous, with coarse sibres.' No one can defire greater latitude than is here allowed him; for, be-indes the great choice of general expressions, a most unscientific consustion is produced by consounding the fracture with the structure of the substance in question; the laminor and sibres refer to structure, the conchoids and splinters to tracture.

'Its fragments are indeterminable, with their edges, and rarely rhomboidal.' This might have been of some use, if the fragments of most substances were not indeterminable. 'It is rarely granular:' that character, of course, can be of little use in inquiring after quartz, though the enumeration of its occasional occurrence may rescue some solitary specimens from exclusion. It might have been usefully amounced among remarks, but its intrusion into the characters is imperiment.

It is commonly translucid, soldom semitransparent; for (mark the subtlety of the distinction) a trisling increase of transparence

elevates it to the more exalted rank of rock crystal.

'It is hard.' So are almost all minerals—fo is Suffolk cheefe. The question is, how hard—what stone will it scratch, and .. at will scratch it?

It is fragile—It is middling heavy. Almost all minerals are fragile, and nine tenths of stones are middling heavy. The absence of these most common attributes might convey a ray of illustration, but their presence can characterise nothing.

Such are the external characters of Quartz, in which it appears, on a complex view, to differ from itself, and in the detail,

to refemble almost every other mineral substance.

He who can distinguish quartz by the enumeration of these nullities, must possess an intuitive mineralogical sagacity, surpassing in marvellousness all the legendary fables of necromantic skill. The famous divining rod is still, we believe, resorted to occafionally for discovering the direction of metallic veins; and if the students of Germany possess such acuteness as to comprehend and profit by the descriptions of minerals presented in their books, we should be induced to suppose that the acquisition of a divining rod was an indifpenfable requifite for unlocking the arcana of the science, and would impute our own indocility to the want of so useful an instrument. But the gross errors into which those who are most familiarized to the external characters are frequently betrayed, and the admitted impossibility of acquiring mineralogical knowledge from books, lead us to prefume, that even the most zealous will abate their confidence in these characters, and seek for more unerting and unequivocal criteria in the structure of minerals, in their electric and magnetic relations, in their refractive and phosphorescent phænomena, in the effects of heat and the more simple chemical tests; that the relative hardness expressed, by specifying what minerals scratch, and what are scratched by a given species, will superfede the present vague description of hardness; that the exact specific gravity fet down in arithmetical cyphers, will supply the place of middling heavy' and its coadjutors; and that future observers will employ themselves in these investigations, instead of balancing a stone in their hands, or feeling if it is cold.

In their censures of foreign mineralogists, the Germans seem actuated by a genius which, seeking to embrace the boldest outlines of their science, despises the littleness of detail, and the drudgery of accurate investigation. While they contemptuously sneer at him who measures the angles of a crystal, or seeks to discover the nature of a mineral, by observing the direction of its natural joints, they endeavour to systematize chaos, and, instead of recoiling from the endless admixtures, gradations and transitions of rocks, seem to expect that substances the most distinct should issue from elements the most consused, and class them with as much decision as if they were defined by regular form and unadulerated composition. Yet we often and them

inconfiftently.

inconsistently receding from this daring plan, and gratuitously bestowing on a shade of colour that power of constituting species, which they resuse to essential, integral difference, and decided

variety of geological relation.

Thus quartz, if transparent, is rock crystal; if only transsucent, is quartz. Tinge it purple, and it is amethyst: Let it be reddish or whitish, and rather opaque, and it is milk quartz: Let its fracture be splintery, and it becomes hornstein: Let it be conchoidal, and it is slint: If mamellated or investing, it may be chalcedony: Let it be irridescent, and it is opal; add a minute portion of iron and argil, and it is jasper: Let the iron be rather more than usually abundant, and it is eisen keisel. Yet all these, and more, are quartz: their grand constituent is silicious earth. Every test exerts on them a similar agency; every

analysis gives the same result.

Nor is quartz the only finneral unneceffarily subdivided. The zircon and hyacinth differ only in a shade of colour; the chrysolite and oliven do not differ at all. The pyrop, which has lately exsoliated from the class of garnets, has no difference but superior beauty. The emerald and beryl differ only in colour; tourmaline and schorl are precisely the same. Nor are these frivolous subdivisions consined to the combinations of earths with earths, where the uncertainty of analysis affords an excuse for consusion; for they extend to the combinations of acids with earths and with metals. Werner divides the phosphate of lime into two distinct species, under the names of apatite and spargelstein. And in the recent tables of minerals, published by the enlightened Karsten, we find the combinations of lead and phosphoric acid divided into sour species, solely on account of variations of colour, which the names assisted to them describe.

Though these observations are not strictly confined to Emmerling, they are strictly applicable to his performance; for no system can be more vicious than the one he has adopted; there is no imaginable perplexity on which he has not blundered—no lapse of inaccuracy into which he has not slid. Apparently unacquainted with either French or English, his attempts to display a knowledge of these languages, deform his list of synonymes with the most ludicrous blunders; and, in his Second Part, he several times misunderstands Hauy, in a manner that bears the appearance of studied perversity. Fortunately for foreign authors, he feldom honours them with his attention, but, with very pardonable predilection, felects his authorities from among his German brethren. Some partiality is apparent in his appreciation of their merits. In the First Part, Werner rises lord of the ascendant; but, in the Second Part, his declining glories are exunguished VOL. III. NO. 6.

tinguished in the blaze of another luminary. Karsten, for reafons to us unknown, selected Emmerling's first edition as the text-book to his tables, and occupies a broad column, by repeating, after the name of each species, the words Emmerling's Mineralogie, with a reference to volume and page. The vanity of any man might be titillated by applause from Karsten; and Emmerling, in his Second Part, has elevated him as high as his feeble powers would permit. He now finds Karsten's arguments are unanswerable, his positions irrefragable, and his assumptions just. In cases of contest, Werner, and every one esse, must give way; and much extraordinary incongruity is introduced into the work by this change of its tutelary genius.

The arrangement of a systematic work first attracts the reader's attention. Though the method followed in arranging the minerals in the first part of this book, be totally different from that adopted with reference to the same substances in the second part, there are some general censures to which in our opinion they are

equally liable.

The first part approaches nearer to the method of Werner, than to any other system we are acquainted with; and the second part deviates only in a few unimportant transpositions from the arrangement of Karsten's tables. Both of these celebrated men assume the composition of minerals developed by analysis, asthe basis of their system. They divide their minerals into orders, named after the earths, and generally class them according to the predominating component. Aware, probably, of the prefent imperfections of analytic chemistry, Werner does not rigidly regulate his classification by the refulting proportions of earths. He allows his judgment to be guided by imaginary families and gradations; and commonly places minerals in the class of the earths whose particular characteristics they seem to bear, without attending to predominance in quantity. Thus, we find Werner classes jaspers and opals among the argillaceous genus, though the opal contains no argillaceous earth at all, and the jasper only about 20 per cent., filex being the grand component of both. Thus he also places in the silicious genus, the spinel, the saphire, and other gems which contain no filex at all.

With greater reliance on analytic results, Karsten has regulated his system by them, as closely as the nature of the subject would permit. Yet even Karsten has been constrained to make many singular deviations from the strict rule of proportion. Clay, which it would be difficult to exclude from the argillaceous genus, generally contains twice as much silex as argil. Argillaceous shiftus, wakke, and basalt, are all nearly similar in the disproportion of the earth under which they are classed. In the magnesian

genus

genus there are only two instances in which magnesia is contained in a larger proportion than any other earth; and it is well established, that some varieties of tale contain no magnesia at all.

We have, in a former paper, stated at length the arguments which appeared to us decifive against arranging all minerals by the refults of analysis: those objections were confined to the combinations of earths with earths, where minerals of the most striking diffimilarity appear compounded of the same elements, and in nearly the same proportions; and where differences, the most important, result from causes that have hitherto eluded re-It appears to us, that no argument can more strikingly illustrate the positions we endeavoured to lay down, than the incongruities which deform the celebrated fystems we have quoted. In the one, minerals without filex are jumbled with those in which filex is predominant, to the perplexity of the student, and astonishment of the proficient. The other commences with a steady observance of proportion, which is at once wantonly relinquished; and the deviation from regularity becomes more deceptive, because unexpected. Werner places the chrysoberyl at the head of the filicious genus; of course, it is concluded that filex predominates. Far from it; that mineral contains 71 per cent. of argil. Jasper is at the head of the Argillaceous genus, and it contains 75 per cent. of filex. Bol is placed at the head of the Magnefian genus, and it contains 19 per cent. of argil, 47 of filex, and only fix of magnefia. Utter confusion seems preserable to arrangements, where the appearance of order is so extremely fallacious, where the species are not what the generic denomination declares them to be, and where those who industriously acquire a knowledge of the fyttem are only rewarded by an accumulation of crror.

In imitation of Werner, the diamond is allowed, by Emmerling, to conflitute a feparate genus among earths and stones. As there is no point in chemistry more clearly determined than the composition of the diamond, we viewed this arrangement with some surprise, till we perused the explanatory observations; in which we found, that so faint a rumour of the recent discoveries has yet reached Mr Emmerling, that he may be excused for harbouring an expectation that a more noble origin might yet be assigned to the diamond than the one Sir Isaac Newton prophetically allotted it. As Karsten has judiciously placed it among combustibles, we hope that, in Mr Emmerling's future volumes, he may correct the position of the diamond, and enlarge his account of it.

In the next article, Mr Emmerling's display of synonymes is, as usual, genfortunate. The English name of the zircon or jar-X 2 gon is faid to be circone. Even in the emendations of the fecond part, the zircon and hyacinth are allowed to remain feparate species, though he had access to Haiiy's essay on their identity, through the medium of a translation of Moll's Jahrbuch. If these substances are not the same, we know not how mineralogical identity can be determined. They give the same results in repeated analyses; they possess exactly the same chrystalline forms; they are of the same hardness, specific gravity, and double refraction, and only differ in colour.

After the zirconic follows the filicious genus, and the two volumes now become irreconcileably difcrepant. As the fecond part is the refult of the author's most matured experience, and contains several species not enumerated at all in the former, we must follow its arrangement in our observations, submitting, with all practicable patience, to the toil of referring to the antecedent

portions of the corresponding articles in the first part.

The filicious genus commences in the fecond part with the almandine of Karsten. This mineral has been lately separated from the garnet, a species which was once made a common receptacle for all stones of a certain form; and, after the removal of these adventitious additions to its varieties, it seems fashionable to fritter down the original flock into numerous distinct species. The garnet once comprehended the leucite or white garnet, the melanite or black garnet, and the coccolithe or green garnet, with a long list of et cateras. These minerals are now elevated to the rank of distinct species, and the garnet itself was subdivided by Werner into noble and common. Karlten constituted some varieties of the noble garnets into almandines; and, more recently, Werner has created for the Bohemian garnets the well-founding appellation of pyrops. These alterations appear to us to rest on unimportant diversities, or on the results of analysis, which vary in almost every individual specimen of garnet, with an incongruity that appears irreconcileable with any classification. To illustrate this, we add a table of the analysis of varieties of garnets.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Components.
\$5.75 27.25 	36. 22. 3- 41.	40, 28.50 250 10. 16.50 -25 1.25	11.66	20.	43. 16. 20. 16.	38. 20. 31. - 10.	_	6.4 33. 25.5	28.5 3.5 10. 16.5	Silex. Argil. Lime. Magnelia. Oxyd of iron. Do. of manganele. Lols.
20Q.	102.	100.	99.99	100.	100.	100.	100.	100.	98.75	

No. 1. of this table is the analysis of a Syrian garnet, by Klar-roth. Specific gravity, 4.085.

'No. 2. A transparent red Bohemian garnet, by Vauquelin. Its

fpecific gravity was 4.1554.

No. 3. A Bohemian garnet, by Klaproth. Specific gravity, 3.718.

No. 4. A noble Bohemian garnet, by Achard.

No. 5. A red garnet from the Pic d'Fres Lids, by Vauquelin. It was crystallized in small dodecahædrons.

No. 6. A black garnet from the fame place, crystallized in do-

decahædrons, by Vauquelin.

No. 7. A yellow amorphous garnet from Corfica, by Vauquelin. Specific gravity, 3.578.

No. 8. Common garnet, by Weigleb.

No. 9. Melanite, by Vauquelin. No. 10. Melanite, by Klaproth.

The inspection of this table seems completely to verify Hauy's observation, that the analysis of garnets proves nothing, or too much. If we are guided by it, we should form ten species; for in no two instances is there a similitude of result. Yet all these agree pretty nearly in specific gravity, hardness, and fusibility. crystallization they are exactly similar; and though there is considerable diverfity in their geological relations, they are too imperfectly known to be much relied upon. It appears preferable, to allow these substances, which have so many kindred claims, to remain united till the repetition of analysis may have generalized our knowledge of their composition, and till we are better informed of the origin of the Oriental and Bohemian garnets. Though the lift of localities is perhaps the part of Emmerling's book which is the most copious, and on which he has bestowed the greatest attention, he feems ignorant of the existence of garners in the limestone of the Pyrenees, and among the substances ejected from Vesuvius.

The fifth species, the Vesuvian, as it is called, is merely introduced to say that Haüy calls it Idocrase. There are sew names which would not be preserable to Vesuvian, an appellation which has been applied to Leucites, Augites, and almost every one of the numerous products of the celebrated mountain from whose name it is derived. If Emmerling was unwilling to extract any other benefit from Haüy's excellent observations on that mineral, he might have advantageously corrected the error he has fallen into in the synonymes of his first part, where he says that this substance is called in French, chrysolithe des volcons; and in English, volcanic chrysolithe. It was called volcanic hyacinth in English; and a similar denomination was bestowed on it in French.

Only

The eighth species of the filicious genus is hornblende, which is fubdivided into common hornblende, hornblende shiftus, shining hornblende, or schiller spath, labradore hornblende, and basakic hornblende. The fynonymes contain the following words, faid to be the English denominations of the three first of these substances: Scort opaque, hornblendik schistus, and changeable spar. Of the five fubspecies enumerated above, three are absolutely the same, and needed no division; and the other two are totally different, and ought not to have been affociated with the rest at all. ence whatever exists between basaltic hornblende, common hornblende, and shistose hornblende. We believe no German has ever attempted to subdivide mica, because it is sometimes found distinctly crystallized, sometimes in amorphous masses, and sometimes as a constituent of micaceous shiftus. All these are allowed to be plain mica; and we fee no reason why the others should not be plain hornblende, for the cases are exactly similar. great error confints in endeavouring to find an unfubstantial dif-ference between the crystals of common hornblende, and those denominated bafaltic hornblende, or bafaltine, from the nature of the basis in which they are engaged. Why, on the same principle, is not the feldfpar found in traps, separated from that in granite or other rocks? This diffinction should either not have been attempted, or carried rigoroully through the whole fystem; and if that had been accomplished, it would have created a chaos of unnecessary names and frivolous distinctions, that would have been a most pregnant source of errors and perplexities. The gradation from lamellar, or common hornblende, to the shiftose formation, may be diffinctly traced, and they are eafily identifiable, Thus far we would endeavour to simplify, by condensing three species into one; but instead of striving to conjugate the two remaining species with these, we would assiduously remove them.

Mineralogists have long been informed by Saussure, that he had discovered a mineral in some of the compound rocks of Switzerland, Piedmont, Corsica, and essewhere, which, though it bore some general resemblance to hornblende, differed from it in so many essentials, as to induce him to constitute it into a separate species, under the name of Smaragdite. The similarity of this name to the Greek word smaragdus, which, with a trisling elision, is still used in Germany for an emerald, induced Haüy to change it into Diallage; but we believe the objectionable term is still used by such Germans as have been prevailed on by the arguments of Saussure, and the demonstration of Haüy, to give this mineral a separate place in their systems. An accurate examination of specimens leaves no room to doubt the triple identity of the sinaragdite, or diallage, the schiller spath, and the labrador hornblende.

Only the two first have hitherto been analyzed, and their results present a nearer approximation than could be expected from minerals, which are very various in colour, and almost always closely united with other substances in compound rocks. In their structure, as far as it can be developed by mechanical division, all these agree, and all are irreconcileable with hornblende. M. Emmerling erroneously quotes Smaragdite as the denomination be-

stowed by Hauy on the substance which he calls Diallage.

This article has been already fo much protracted, that we shall not contest the division of schorl and tourmaline into separate species. We know of no difference between them, except the superior transparence of the tourmaline; and we leave our readers to determine whether that should outweigh the coincidence of their crystallization, composition, and electric qualities. We are curious, however, to learn from what authority M. Emmerling derives the word ashdrawer, as the English name for a tourma-Jine. Could we suspect him of having examined any English book, we should imagine he had met with some Young Gentleman and Ladies' Introduction to his favourite science; but as we believe him little addicted to exploring the treasures of foreign literature, we presume some German friend has thought it witty to impose on his ignorance.

Though fully convinced of the identity of the emerald and beryl, we shall not endeavour to prove it, but leave German ingenuity to shew a difference between them. The existence of the new earth, which Mr Trommsdorf believes he has discovered in the minute beryls of Johangeorgenstadt, appears to us very equivocal, and we think it probable future analyses will iden-

tify it with the glucine.

In the next article we shall notice, Mr Emmerling obviously labours under very inextricable confusion. The cluss of strahisteins, as originally constituted by Werner, was so comprehensive as to include the greater part of radiated substances. It was foon found necessary to divide it into the asbestiform, the common, and the glassy. After these the tremolite was introduced, divided into three fimilar varieties. These arrangements were either unknown or difregarded by French mineralogists, and they created a variety of species, some of which they placed under the comprehensive denomination of Schorl, and bestowed on others specific denominations. In this state. Kirwan found matters, and he rendered confusion worse confounded, by affociating tremolites, and various others minerals, with strahlsteins; then, wondering at the heterogeneous mass he had jumbled together, and endeavouring to reduce it to some form, confistence, and regularity, by the invention of fix new X 4 fpecies. species, as auxiliaries to those he deemed so inadequate to perform the task of discrimination. Haüy, by a dispassionate inquiry, has simplified this chaos. He has retained the tremolite of the Germans, but changed the name to grammalite. He has divided strahlsteins, most of the asbestisorm variety of which he refers to hornblende, or, as he calls it, amphibole. Some of the common and glassy strahlsteins correspond to actinote, and others to epidote, which comprehends thallite and the acanticone of d'Andrada. Between these species he has shown essential differences, except between hornblende and actinote, which appear to vary so little, that suture observations may probably identify them. Mr Emmerling has wisely steered clear of the self-created confusion of Mr Kirwan; but he has involved himself in one equally difficult, of arrangement, by strangely misunderstanding the very

simple statement of Hauy. As we have not room to discuss fully this intricate question, we shall only give concisely the distinctive differences of Hauy's species, and state what species, according to the German nomenclature, belongs to them individually. Epidote is distinguished from Hornblende and Actinote by an irreconcileable difference of crystallization. It yields, by mechanical division, a prism with angles of 1141° and 651°. Hornblende and actinote yield a prism of 1241° and 551°. Epidote melts into black scoria at the blowpipe; hornblende into black glafs, and actinote into white enamel. Hornblende has the same crystalline form as actinote, and yields a fimilar refult to mechanical division. It is distinguished by its opacity and its fufibility, into black glass, instead of white enamel. Mr Emmerling is wrong in supposing, that thallite forms a species with Hauy. That name was given by Lamctherie to epidote. The acanticone is an epidote. Such of the common strahlsteins as melt into black glass, are hornblende; and such as melt into white enamel are actinotes. This species is not called actionate by Hauy, nor foorl striated by the English. Where did Mr Emmerling pick up this word foorl, which he repeatedly intrudes on his readers as English? The glassy strahlsteins, which melt into white enamel, are actinotes: those which melt into brown fcoria, and divide into prisms of 1141 and 651 are epidotes, and include the thallites of Lametherie. The afbeftiform strabiliteins, defined by Emmerling to melt into a dark green or black glass, can only be the acicular hornblende of Haiiv.

Passing over quartz, which we never heard called in English quarz aliman, opal chalcedony, and their subordinate species, without enlarging on the reasons which convince us that they should be united, we are induced to pause at hornstein, with a hope, though a very faint one, of removing some of the obscu-

Tity in which this mineral has always been enveloped. A great deal of ambiguity has arisen from its very objectionable name, which has been confounded with hornblende, and the pierre de corne, or roche cornéenne of the French. Independent of the extraordinary errors thus created, others equally fatal arose from two distinct substances being associated under this name; for the German hornstein comprehends two minerals—one composed entirely of filex, with a splintery fracture, always infusible, frequently contained in metallic veins, often investing minerals—and pseudomorphique, often forming veins, and disposed in irregular masses in secondary limestone. It also comprehends another substance with considerable variety of composition, always fusible in fome degree, generally into a white enamel, but often fo contaminated by foreign admixture, as to yield a dark-coloured glass never found in metallic veins, either investing or pseudomorphique, and never found in fecondary limestone, frequently alternating with argillaceous shiftus, frequently the basis of porphyry, and frequently forming veins in primitive rocks. We would agree with Dolomieu in calling the first of these Splintery Quartz, and the second Petrofilex; but we are not yet prepared to affent to his opinion, that petrofilex is the compact feldspar of Germany; nor can we agree with Hauy in affociating pitchstone as one of its varieties.

Since it has been admitted by all mineralogists, that porcelain jasper is nothing but a clay which has been changed by the combustion of the coal on which it was incumbent, it appears very difficult to conceive the reasons by which it has been allowed to occupy a place as a diffinct species. A burnt brick possesses equal claim, and would make a more respectable figure, as the catalogue of its uses might be swelled to extreme magnitude. needless to urge, that porcelain jasper, being a substance not prepared by human agency, is entitled to examination, though we are well aware of the nature of the operation which produced it. The extension of this principle would carry us too far. For the strata, alternating with the clay which forms porcelain jasper, are acted on by the fame heat, and are all changed. The fandstones are femivitrified; the iron ores are calcined, and fometimes imperfectly reduced; the marks are melted, and enlarged in bulk; and yet all these are allowed to remain in undisturbed obscurity.

We are unwilling to engage in the inextricable controverfy about the origin of the family of Traps; and therefore, passing them over with the Klingstein bringing up their rear, we advance to Lava, which has been compressed into one species, though its varieties are innumerable and indefinite. Every new rock which serves as pabulum to the volcanic sire, by varying its aliment, changes its produce; and no two lavas are found possess.

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ing fimilarity in aspect or composition. They are often sound with bases the most diverse, and which apparently belong to substances admitting of classification, as petrosilex, pitchstone, feldipar, and volcanic glass, and not unfrequently composed almost wholly of leucites, packed together with scarcely any interpoling balis. To attempt the forcible union of fo extensive a class of substances in the narrow limits of one species, can only proceed from the most lamentable ignorance of volcanic products, or a bigotted adherence to preconceived opinions. Mr Emmerling's perseverance seems marked by a most determined attachment to error, as his more enlightened guide Karsten has given a luminous arrangement of volcanic substances at the conclusion of his valuable tables.

When it fares thus with Lava, what must Pumice expect? As a species, it is spared perhaps undeservedly; but an attack, we should never have dreamt of, has been made on its claims to a volcanic origin. This is led by Mr Esmark, a gentleman who has distinguished himself by various singular speculations. His frisolous arguments are announced by Mr Emmerling with some formality; and he descants oracularly on the mysterious origin of pumice.

It appears to us that Marecanite and Perlstein, which the English do not call perlite, are exactly the same, and that they, together with obfidian, have a common volcanic origin.

formation of pitchstone remains very dubious.

We fear we shall be longer detained by Feldspar, or Fieldspar, as Mr Emmerling would have us call it; for this important species has been much subdivided. The beautiful transparent crystals found more abundantly on St Gothard than elsewhere, have been separated from feldspar, under the name of Adularia. The irridescent feldspar has been called after Labradore, where it was first observed; and the glassy seldspar sound in lavas and porphyries, has also been ranked as a species. Besides these, another species is found under the denomination of compact seldspar, because it presents a splintery fracture, instead of a lamellar structure. A compact spar cannot be talked of, without involving a Maradiction in terms. Kirwan, with more propriety, has called the substance in question Felfite, and not compact fieldstone. This is a mineral of confiderable importance, as it forms the basis of some porphyries, and is frequently an ingredient in compound roeks; it is alleged, among others, in that containing diallage, near Turin. If this be the case, it is the Sade of Sansfure, and the Petroulex of the later French mineralogists. The other-members of the feldipar family are completely identifishle; but we should feel some hesitation at this substance being. admitted meri

admitted into the circle, till future observation and experiments have rendered its composition better known, have traced its geological relations more completely, and placed its connexion beyond the reach of cavil.

In the 25th article, we find Mr Emmerling infifting, that Hauy continues to use the word zeolyte, and dividing the minerals represented by it, for his own use, into earthy, fibrous, and crystallized. He might have known, that Haily, finding fubstances essentially different affociated under that term, exploded it entirely, and introduced a new name for each of the species he distinguished. Thus, the mezotype corresponds to the fibrous and acicular zeolytes; the stillbite to the lamellar and to some of the radiated zeolytes; the chabasie to the zeolytes called cubic, though in fact crystallized in rhombs approaching to cubes; and the analcinie to the zeolythe dure of Dolomicu; specimens of which, crystallized in icosinædrons, with pentagonal faces, have been found at the Calton Hill near this city. Part of this charge Emmerling feems aware of; yet he has only profited by it, to confound the chabasie with the analcinie, in spite of the

simple mode of discrimination laid down by M. Hauy.

Passing by the Tafel Spath, which seems to be nothing but a filiciferous carbonate of lime, and other uninteresting species. we arrive at the tribe of Clays. Willing as we are to pay our tribute to the importance of these most valuable, though unaffuming fubstances, and admiring the unusual independence of opinion with which Mr Emmerling has placed them in the filicious genus, in opposition to both his masters, we maintain an adherence to the opinion we have formerly expressed, of the inutility of attempting to limit them by the strick rules of orychognostic inquiry. Considering that all clays are the results of decomposition; that their accumulation in particular spots is, produced by alluvion; that they are subject, from their nature, to every species of contamination; that their composition is infinitely variable, and never, except accidentally, in any two instances the same-it cannot be a subject of surprise that we thrink from a task which appears as useless when accomplished. as vast in its extent, and difficult in its execution. Yet, even in this ocean, there are landmarks which may enable us to fleer fo as to subdivide them safely and satisfactorily for an occonomical or geological system, though they are unsusceptible of that accurate distribution into species which appears effential to a system of mineralogy. In those departments, the Germans have laudably done much. They first directed attention from glittering and useless gems to homely and valuable clays; and we must excuse their ardour, if, in the prosecution of these important inguiries,

friquities, they have endeavoured to force them beyond their legitimate limits.

There is no other article of the filicious genus which demands particular notice; and we are not disposed to extend our remarks to the other genera, which occupy the remaining part of this volume of 928 pages, befides 499 pages in the first volume, which carried the author only to the termination of the filicious genus. We think it unnecessary to inform our readers, that the fame faults which fo much deform what we have commented upon, continue to detract from the utility of the rest; that the remaining descriptions are vague, prolix, and deficient in effential application; that the synonymes are incorrect; that the observations are diffuse and unimportant, the arrangement radically defective, the subdivisions often founded on frivolous distinctions, and the misconceptions of other authors singularly abundant. The oftentatious copiousness of the list of authorities, might induce an unwarranted opinion of the accuracy of the author. Kirwan's Mineralogy, for inflance, is perpetually cited, yet nowhere does he use the nomenclature of Kirwan, and nowhere do the pages he quotes contain the article referred to. ever consulted Kirwan, it must have been through the contemptible medium of a mutilated translation.

We need no concluding remarks to fum up the character of this work. Our opinion of it may be read in the observations to which it has given rife; nor do we see any reason to modify the censure they imply. In justice to Mr Emmerling, we may however observe, that many of the accusations against him are founded on errors not peculiarly his own, which he could not have avoided, without relinquishing entirely those systems to which all his countrymen have been accustomed to look for assistance; and it was not in the placidity of his nature to commence a rebellious innovation. He who understands a subject imperfectly, is contented to rely on authority; and feeling himself unable to stand alone, is afraid to examine his prop, lest he find it to be rotten. The peculiar faults of Mr Emmerling, are those of an imitator; and to the servility of an imitator, he adds the mutability of a feeble understanding. Hence arises the lamentable confusion he has introduced into his work, by changing fro the system of Werner to that of Karsten, and the equal degree of credence he yields to all authorities not directly contradictory to the doctrine of the two great mineralogists who alternately sway his opinions. Seemingly appalled by the daring operations of the unsparing Hauy, he has not ventured to express approbation or diflike. Probably he did not understand the reasons of the revolution that was operating; and as his oracles

had

had not spoken, Emmerling was dumb. On the whole, we have found his book irksome and unprofitable in the perusal. We have

toiled through it with difgust, and closed it with joy.

If our readers are disposed to acquiesce in these observations. they will hear, without regret, our determination not to call their attention towards the promifed volumes, should they at any future period be laid before the public, unless they possess a claim to examination, by their superiority to those we have considered. Yet, when we reflect on the maturity of Mr Emmerling's talents. and the furprizing perfeverance with which he has purfued the path to that species of literary eminence which he seems peculiarly ambitious to attain, we think the probability of fo great a change, as to bring him again before us, too distant to excite any ferious apprehension. His nation have never been celebrated for facility in yielding to innovation, or for flexibility of intellect. They have refifted conquest and improvement with almost equal obstinacy, and have defended with similar pertinacity their religion and their errors. Nor can they foon be convinced of their mistakes, while German observers alone are trusted, and German writers alone are quoted, or while the same mineralogical creed continues to fetter the observations of almost every German observer. There must be some apostates from the established superstition, before the reformation can be begun: and fuch an apoltate we expect to fee in Karsten. He has already advanced to the relinquishment of several important errors, in which most of his countrymen persevere; and we have little doubt that his candour and penetration will lead him still farther. Much also may be expected from the recent journey of Werner to Paris, where he faw substances, of which he had but an indiffinct knowledge before, and was introduced to men who would convince him that mineralogy was not the peculiar science of Germany. By such intercourse, prejudices must be annihilated, apparent contradictions removed, ambiguities made clear, and the most precious interests of Science incalculably advanced.

ART. IV. A Differtation on the Mysleries of the Cabiri, or the Great.
Gods of Phenicia, Samothrace, Egypt, Troas, Greece, Italy, and Crete:
Being an attempt to deduce the several Orgies of Isis, Ceres, Mithras,
Bacebus, Rhea, Adonis, and Hecate, from an union of the Rites in
commemoration of the Deluge, with the Adoration of the Host of Heaven.
By George Stanley Faber, A. M. Fellow of Lincoln College. 2 vol.
8vo. pp. 900. Oxford. 1803.

WE do not recollect ever to have perused a work which bore such decisive and numerous marks of having been manufactured according to the process invented by one of the

the Profesiors in the Academy at Lagoda, * as this Differtation on the Cabiri. We would not except even its great prototype, Mr Bryant's Analysis of Ancient Mythology; because in that work there are certainly a few passages which could scarcely have been composed without the intervention of intellect. . Mr Faber's work, however, is entirely mechanical. In the ancient mythology there is some ingenuity displayed in accommodating refractory facts, in tracing remote analogies, and in explaining distressing difficulties. Mr Faber, however, has attempted nothing of this kind. He has copied Mr Bryant servilely in every thing that is fanciful, weak, and absurd. He is the plagiarist of what no man of talent would have thought worth the trouble of copying. He has, in many instances, even heightened the absurdity which he has borrowed, while he has not been able to transfuse any portion of interesting ingenuity, or attractive novelty. Every page of the Differtation betrays a fingular frigidity of imagination, combined with a decided antipathy to common fense.

It would be difficult, we believe, for the most experienced linguist to determine, for some minutes after he has opened the

book, in what language the greater part of it is written.

· It is a party-coloured dress

Of patched and pye-balled languages. 'The ground, no doubt, is English; but it is so spotted with what the author is pleased to call Greek, Latin, Phenician, Sanscreet, Hebrew, and Iliensian names, that the component whole is entirely novel to the eye and the understanding.

Mr Faber is decidedly one of those

In Homer, more than Homer knew.

He claims a more intimate knowledge of the isoteric doctrines of the Heathen mythology, than the most prosoundly initiated mystagogue. Who or what were the Cabiri, seems to have been a matter of doubt and controversy in the days of Varro and Nigidius, when their rites were still in observance. At the distance of two thousand years, Mr Faber undertakes it; and informs us, The object of this Dissertation is to shew, that the mysteries of the Cabiri, which I conceive to be the very same as those of Isis, Ceres, Mithras, Bacchus, Rhea, and Adonis, were principally founded upon certain mutilated traditions of the Deluge. '(Preface.) Mr Faber, accordingly, traces Noah's ark through the darkness of three thousand years, and to the distance of some thousand miles, and finds it giving name to Ireland and the Hebrides, and forming part of the mysteries of Druidism.

Mr Faber thinks it probable that Bute and Arran received their respective names from having been the seats of the Helio-arkite superstition:

^{*} Gulliver's Voyage to Laputa, c. v.

fuperstition; Budo, the city of the arkite heifer, Aran, the ark; (Vol. I. 63.) The Budha of Hindostan, the Buds-do of Japan, the Fohi of the Chinese, the Odin of Scandinavia, have all reference to Noah; and the Merlin of the Celts, with the Knights of the Round Table, are the Patriarch and the Cabiri (Vol. II. 437). Even in 'the Arabian Nights Entertainments,' the heated imagination of Mr Faber discovers the Sabian idolatry, and the confecrated oracular grotto, (452); and he hints, that the erection of one of the pyramids in Atovi, on the bank of a small lake, may have a reference to the deluge, (457). Ireland is Ireh, the moen: Britain is Brit-Tan-Nuh-Aia, the land of the fish-god Noah, who entered into the ark; Albion is Alban-Aia, the land of the moon; Inch-Columb-Kill, the island of the arkite dove, (387). The crosslike form of buildings is a fymbol of Noah and his ark; not of Christianity, as is vulgarly supposed. The English te, the Greek tau, the Hebrew thau and teth, and the Icelandic tyr, all refer to the bull, or Noah, or the ark; and in one of the forms of the Chaldaic teth D we may still perceive a faint resemblance to the hull of a ship, (391).

The extreme frivolity, indeed, and palpable contradictions, which teem in every page of this work, would have induced us to have passed it over in silence, had we not been apprehensive that the appearance of learning, which it exhibits, might gain some converts to the system which it supports; or that the credit of orthodox erudition might be impaired by the impunity of such ela-

borate abfurdity.

After these remarks, which to many may appear contemptuous and severe, it is certainly our duty to bring forward instances of their solidity and truth. We hesitate, and know not how or where to begin; not that we are at a loss to find such instances: but, as we wish not to weary the patience and disgust the understanding of our readers, we must selection is dissible. As, however, the radicals, which are alphabetically arranged at the beginning, may be considered as the key-stones which hold together the several parts of the system, we shall first examine whether they are adapted to the purpose. We refer our readers to 'Richardson's Differtation on the Languages of the Eastern nations, for remarks on those radicals which Mr Faber has professedly borrowed from Mr Bryant. Of those which are of his own original invention, we shall bring to the test only such as our author deems most useful and unobjectionable.

'Arc, arg, org, erech, arech, a long ship or ark. Heb. arach spina, a long ship.' Is Mr Faber ignorant that arach is here the adjective

^{*} Richardson's Dissertation, p. 112-130. 253-267. 451-460.

adjective long; that fipina, as we shall presently shew, is improperly rendered, in our translation, a ship *, and that these two words

do not occur together in any part of the Old Testament?

Bu, bo, boi, bo, an ox. The Hebrew word is boquar, and properly fignifies an herd of oxen. Mr Faber, in deriving these words from it, feems to have forgotten that koph and refb are radical letters, and, confequently, that to remove them, is precifely to remove the whole word.

' Ma, mai, m', great.' The Hebrew word is mod. Mr Faber's radicals, therefore, are effentially different: befides, mod is never

prefixed; and m, when prefixed, never fignifies great.

Menu, Manos, Menes, Noah. The name of Noah, with the prefix m, or the particle ma: thus, 'Ma-Nuh will fignify the Great Noah.' The preceding observations will entirely destroy this very important radical; and also that which immediately follows- Menah, Men, Monah, Mon, any thing Noetic, the ark, the moon.'

Nuh, Nuch, Nuach, Nus, Nau, Noah.' There is no authority for the existence of the word Nus, of which our author makes the most frequent and important use: + it does not occur in any of the Oriental languages; and, in fact, the addition of the fa-

^{*} We are aware that the direct authority of the learned Bochart is here in favour of Mr Faller. 'Gaulis puto Phœnices opposuisse area sipina, naves area, vel area, ut Syri efferunt, id est, naves longitudinis, seu quod idem est, naves longas. Atque inde factum, litteris G & C permutatis ut passim, ut navis Argo appellaretur quæ prima fuit longa navis apud Græcos.' (Bochart. de Colon. Phænic. lib. II. c. 11. p. 739. Edit. Lug. Bat. 1682.)—Bochart's authority for this supposition is Hefychius: but this author merely fays, that among the Phænicians, the arco, or long ship, was opposed to the gaula, or round ships. Even if we allow Helychius to be correct, furely his authority is not fufficient to determine the arkite meaning of the word: and, granting that the ship Argo was thus denominated from its length, this very circumflance amounts to a proof, that, before it was formed, the word area was never used to figuify a ship. Although Buxtorf and Bochart seem to think that sipina means a ship, we are induced, from the derivation of the word and the context, to coincide with Taylor and Parkhurit, in translating it the cabin, or a recess in the cabin. It may perhaps be objected, that long ships existed among the Phoenicians before the time of Jason; but if we may credit the Scholiast of Apollonius, the Argo was the first long ship (Apoll. Schol. apud Bochart.); and from every testimony, it appears that round ships, gaule, were in use a considertime before long ships; consequently, the word area cannot be confidered as a diluvian radical. ्र † Differt. Vol. I. 92. 124. 136. 239. 416. Vol. II. 147. 220, &c.

mech, a radical letter, makes it an entirely different word from any of the rest.

'Ph', p', pu', the. Heb. pi.' Pi, in Hebrew, has no such

meaning.

- "Hipha, fiphina, hiph, fiph, a decked or covered spip." The first word fignifies a kind of alcove separated from the larger chambers in the Eastern houses by a veil: it occurs Psal. xix. 6. and Joel ii. 16.; in both which places it is rendered by the LXX, success. Siphina is found but once, Jonah i. 5. where it is improperly rendered by our translators ship, which is expressed by a different word in this and the two immediately preceding verses: it seems to denote the cabin, or a recess in the cabin. The LXX render it xould the xabin.
- 'Tit, the deluvian chaos.' 'In the fystem which forms the basis of the present work, it is supposed that the word titan is derived from Tit, the colluvies of the deluge 3 and, consequently, that it signifies a diluvian.' (Preface.) Tit, in Hebrew, signifies fimply mud, and is accordingly translated by the LXX, **, \$00-Bogos: it has not the most remote reference to the mud of the deluge, and, consequently, none to a diluvian. With respect to the Titans, Mr Faber feels himself obliged to diffent from Mr Bryant: and, accordingly, having ventured to conjecture for himself, he has, as we before observed, plunged into absolute contradiction. In the heathen mythology, the Titans are described sometimes as the impious opponents of heaven, and fometimes as the great gods of the Gentiles: Mr Faber is therefore driven to the supposition that ' the appellation of Titan was a general name of all the perfons who were living at the zera of the deluge, both those who were faved in the ark, and those who perished beneath the waves. (Preface.) But it passes our comprehension to perceive how the term Titan could be applied to those who in no sense could be faid to have fprung from the mud of the deluge, even if we allow Tit to mean, exclusively or generally, the colluvies which that event produced. Mr Faber, however, supports this hypothesis by a most convincing argument— I do not see how the seeming contrariety can be accounted for on any other principles.'

But, enough of etymology. Let us now inquire, for what purpose Mr Faber has taken the trouble of disfiguring and misinterpreting so many words? We shall perceive, that although the words are almost entirely of his own manusacturing, they are of little use: He is obliged, Procrustes like, to cut off some letter from the beginning, middle, or end; or, by the touch of his magical wand, to make the letters of the radical change place, or start above their sellows, before they will suit his purpose. Thus, Dactyli is derived from Dag-Tal; the solar god-fish. Phrixus vol. III. NO. 6.

is Ph' Erich Zeus, the arkite patriarch: '(vol. I. 303.) Hypermnestra is Hip-Or-Menes-Fora, the hippotauriform ark of the solar Menes: (vol. II. 44.) The word degree presents to the eye of common sense little or no resemblance to the Hebrew Aran, an ark; but no sooner is it touched by the great magician, than in dappase

we behold the ark of Noah. (vol. I. 27.)

As the whole of our author's system rests upon the truth of the explanation which he has given, in his fecond chapter, of the Phenician history of Sanchoniatho; it behoved him to have first established the authenticity and genuineness of that work : they are certainly very suspicious: but as the examination would lead us too far, we shall refer the reader to the principal authors by whom it has been undertaken. * Mr Faber differs from Bishop Cumberland with respect to Sydyk, whom the Phenician historian seprefents as the father of the Cabiri. The Bishop confiders him as the Shem of Moses: Mr Faber endeavours to prove him to be Noah. But here a difficulty presents itself, that would at least have appalled an ordinary mind. Sanchoniatho declares that Sydyk was the fon of Amynus, whom our author confiders to be Ham; so that Noah is both the father of Ham, and the fon of Ham. Mr Faber indeed endeavours to folve this difficulty, (58.); but to us, what he advances appears confusion worte confounded.'

And by decision more embroils the fray.

Elium is evidently a mere variation of the Hebrew word Eloah: confequently, when connected with Hypfistus, it will fignify, God the Most High.' (67.) If these words, the one Hebrew and the other Greek, actually did occur, in syntax, in the writings of Sanchoniatho, they would add to the internal evidence, already very powerful, against their authenticity: But Hypsistus is merely the Greek explanation of Eliun, which of itself signifies the Most High.—Such is our author's knowledge of the very language, out of which he has sabricated his radicals †.

Although Mr Faber constantly refers to the original Greek authors, yet charity will lead us to the comparatively favourable

fupposition,

^{*} Cumberland on Sanchon.—Dodwell on Sanchon. Lond. 1691.— Jackson's Chronol. Vol. III. p. 2.—Wise on the First Inhabitants of Europe, p. 54.—Van Dale, Differtatio super Aristea; Accedit & Differt. super Sanchon. Amstel. 1705.—Bibliotheque Choise, Tom. IX. 240. 242. 244.—Court de Gebelin, Allegories Orientales.—Meiners, Historia Doctrinz de Vero Deo, p. 64, &c.

[†] We are surprised our author did not refer to the Punic scene in Plantus (Poenulus, Act V. scene 1.), where Hanno addresses the Carthaginian gods and goddesses, in these words, 4 Elieun, & Eliuth.

fupposition, that in those instances where he has misrepresented their meaning, he has been led astray by Mr Bryant. Thus, he says, 'Herodotus mentions a deep and broad lake near Buto, in which, according to the Egyptians, there was a floating island.' (IV. 61.) Herodotus is here referred to: but this account corresponds exactly with that given by Mr Bryant (II. 329.): whereas, they both conceal a very important circumstance mentioned by the historian. 'The island, which is called Chemnis, is situated in a deep and broad lake, near the temple in the city Boutis*. This island is said by the Egyptians to float: I, however, saw it neither floating nor moving.'—This imaginary floating island, our author afferts to have been a raft or ark, (62.) In proof of this affertion, he refers to the Ancient Mythology; but, on turning to the passage, we found no authority, but merely the ipse dixit of Mr Bryant.

The author of the Etymologicon Magnum informs us, that Theba, in the Syrian dialect, signifies a heifer: but Theba, in the Hebrew, signifies an ark; therefore the heifer was an emblem of the ark, (177). Our author here, however, has preferred his own logic, such as it is, to the latitude of interpretation, in which Mr Bryant has indulged, in order to prove the same point. Tzetzes (in Lycophron. verse 1206.) says, Graa rae n Bus also Dugus. The cow is called Theba by the Syrians. Mr Bryant's gloss is, The ark, among the Syrians, is styled Bous, a Cow. The words of the Etymol. Mag. are, Graa Dugus Dugus in Bus. The cow, in the Syrian, is called Theba. Mr Bryant translates the passage, The sacred heifer of the Syrians, is no other than Theba, or the

ark.' The ark of Noah, in the Syriac, is kibouta. §

We at first intended to have pointed out the passages in which our author has copied Mr Bryant, in order that we might meafure out to each his due share of absurdity; but we are apprehensive that most of our readers would feel little interest in seeing justice done, and would rather believe in the merit of both,
without farther evidence, than, by comparing passages similar to
those which we have quoted, settle the respective claims of these
champions of Noah's ark.

We are, however, tempted to quote one short passage, as it exhibits a happy specimen of that peculiar talent, for which Y 2

^{*} Mr Bryant afferts that there was a temple of Boutis, as well as a city, called by that name. In the Latin version of Herodotus there is; but not in the original.

**Xsumus—resputs ** ** ** Select temples proper templum quod Buti est.

[†] Herod. Euterp. 171. ‡ Ancient Mythol. II. 422. § Richardson's Differt. 454.

we want an appropriate name, and to which Mr Faber seems to have been principally indebted for the beauties of his inimitable

performance.

In fact, Minyas and Orchomenus are both equally Menu or Orca-Menu, the great arkite patriarch: while Hefione, who was the daughter of Danaus or Da-Nau, is Es-Jonah, the dove of the Noetic fun: Hermippa, Herm-Ippa, the ark of Hermes: Eteocles, Ait-Oc-El-Es, the folar god of the ocean: Mars, M'Arcs, the great fun: Aleus, Al-Es, the deity of fire: Beotus, Bu-Theus, the tauric god: and Tritogenia, Tor-Ait-Og-Ghena, the priefless of the belie-diluvian bull. This Tritogenia, as we have feen, was sometimes recknown the wife, and sometimes the mother of Minyas. She was in reality nothing more than the ark, which was styled the priefless of the bull, as Noah was the priefl of the beifer; and which was indifferently esteemed the wife, the daughter, or the mother of the patriarch, according as he was immediately connected with it, constructed it, or proceeded out of its womb." Vol. II. 185.

No ridicule could aggravate the absurdity of such a passage as

this.

When we first persoled this Differtation, indeed, we thought no parallel to it could possibly exist. We have happened very lately, however, to meet with a curious work, entitled, * Herodote Historien du peuple Hobreu, sans le savoir, '(Liege, 1700), from which we shall extract some of the author's arguments for the identity of Proteus and Joseph, in order that we may humble Mr Faber, if he be proud, and console him, if he be askamed, of his Dissertation, by proving that its merits are not altogether without example.

i. Proteus is derived: from reales, first: Joseph is styled in Scripture Shalit, prince, chief. 2. Proteus studied astronomy: Joseph beheld the sun, moon, and stars, in a dream, which worthipped him. 3. Proteus was a keeper of sea-calves: Joseph interpreted Pharaoh's dream respecting the river kine. 4. Proteus did not give any oracular answers, till he was tied: Joseph interpreted dreams in prison. 5. Proteus had the power of walking at the bottom of the sea: The bones of Joseph were transported through the Red-Sea.

We may prohably divide the few readers of Mr Faber's differtation into two classes: the charitable, (these, we are asraid, will be the less numerous), who may suppose that our author has been attempting to imitate Swift in his etymologies, and who may be induced to exclaim. Eh! qui sait si ce beau systeme n'est pas, tout au long, un fort jois badinage?—and the just, who will advise our author, before he again obtrude his works on the public, to re-

collect the maxim of the poet,

^{*} Scribendi recle sareae est et principium & fons.'

ART. V. Travels from Moscow through Prussia, Germany, Switzerland, France, and England. By Nicolai Karamsin. Second edition. Translated from the German. 9 vol. 8vo. pp. 84x. Sidaey, London, 1803.

BOOK of travels by a native of Molcow, excites the fame fort of interest with any uncommon natural phenomenon-2 horse in Venice, for instance—or a tree in Scotland. Such a work, too, claims formewhat more indulgence than we may always be difposed to extend to the productions of more fruitful foils. We are apt to be fatisfied, if we here and there meet with a flight refemblance of those excellences which elsewhere abound in an unlimited number and degree. Nor should we be at all inclined to murmur at being forced to lower our standard of excellence, if the object, after all, could only be made to correspond with it. The effusions of Mr Nicolai Karaman, however, must be allowed to require all this exertion of gentleness. They appear to us, we will confess, fo very far below the writings of those travellers whom we have been accustomed to follow, and abound so copiously in all their faults, with fuch a univerfal want of their good qualities, that nothing but the rarity of a Russian work, and the amusing badmess of the author's head, could have induced us to exempt this book from our quarterly catalogue.

Mr Karamin, it is proper to premife, is of that gentle class of travellers who may be termed purely featimental; who wander over a great tract of country in order to pour forth feelings which might be excited and indulged in equal variety within the four corners of any given chamber; and who, possessing the faculty of attaching peculiar emotions to the observation of the most ordinary occurrences, carefully treasure up the remembrance of such trisling objects as have happened, according to the capricious movements of their fancy, to connect themselves with the workings of their souls, while they studiously neglect the most important events, and shut their eyes to those grand spectacles which

are interesting to all the rest of the world.

It is a first principle with these sentient beings, to refer every thing to themselves, and to consider their own concerns as the objects upon which all eyes are turned. The optics of most men, indeed, diminish the magnitude of external objects in proportion to their distance. But, in this tribe, the sphere of distinct vision is of infinitely small extent. They hardly perceive what is not almost touching them; and that, they see magnified in a wonderful manner. Such persons will pass through the seat of warfare and revolution, with a notice of their own accommodation and fare at inns—of the spots where their emotions overpowered them, and the congenial spirits with whom they enjoyed the luxurious feast of tears. If they ever think of any thing beyond their own fighs

fighs and fmiles, it is only to form the most ridiculous judgements of men and things, according to the standard of the first impreffion. They systematically doubt the inferences of reason; and only question the infallibility of feeling when it may be supported by rational argument. They admire Rouffeau, and wander through his favourite haunts with some interest. But Lavater is much more fuited to their sympathies; they will weep whole days in his company, and load themselves with relics of ' the most interesting of enthusialts.' It is but rarely that these wanderers are contented with writing. The world must be admitted to a thare in their emotions; and volumes are thus made up of dull epiftles, which could only have interested such friends as might with to afcertain the fact of the writer's welfare during his abfence. An apology for inferting every trivial occurrence, is eafily found in the example of those professed tales of siction, which, abounding in uncommon incidents, are affimilated to the narratives of real life by an admixture of ordinary circumstances; and whole chapters are filled with trifles which happen to be true, because the same trisles, if wrought up in a romance, with a multitude of striking passages, would communicate to the whole an air of probability. As it is of the nature of this class of writers to be very communicative, M. Karamfin has fairly told us, in his Preface, that if it was interesting to Richardson's readers to know that Grandison drank tea with Miss Biron, so it may be no less acceptable to M. Karamíni's readers to be informed of fimilar events in his travels.

M. Karamsin left Moscow, his native city, and the seat of every thing that is dear to his heart, with the intention of performing, in the most comfortable vehicles, the casier and safer parts of the tour of Europe, in a year and a half. Accordingly, the first letter which he addresses to his friends, is occupied with describing the poignancy of his grief at the commencement of so dreadful an undertaking, and so long a separation. It contains a long address to his own bears upon this matter; and concludes with advising his friends to console themselves, if possible, during his absence. His wailing continues with scarcely any intermission till he arrives at Riga; but at some parts of his piteous journey, particularly at Narva, his perplexities thickened, and he seems to have reached the utmost depth of human woc.

God only knows the state of my mind at that moment; certainly all pleasing ideas of travelling were banished from it. O! had it then been possible my friends, to have transported myself to you! I silently executed those restless wishes of the human breast which hurry us away continually from one object to another, from true enjoyments to those which are illusive, as soon as the former cease to be new to us. Our imaginations

imaginations are attracted by deceitful appearances, and we are infligated to feek for pleafure in the uncertainty of future events.

Every thing has its limits. When the huge wave dashes against the shore, it returns and precipitates itself into the deep abys, though but just before it appeared to touch the skies.—Just in the moment

when my heart was full of affliction, ' &c.

And truly all this is not without reason; for his travelling carriage had broken down, and he had actually got wet into the skin. Nor is it possible to imagine how far his distress might have proceeded, had not a young man of prepossessing countenance invited him to take shelter in a house, where an old man, whose goodness of heart was marked in his face, questioned him about his travels with 'manifest sincerity,' while his wife gave him excellent bread and coffee. It is needless to add, that this adventure is followed by an animated apostrophe to hospitality and bearevolence.

In travelling through Courland, M. Karamsin generally seeds heartily, and tells us upon what, and for how much. But at one inn, the evening was so sine, the rivulet so clear, and the foliage so shady, that he declined supping, and walked out alone. He beheld the setting sun. This brought to his recollection that he once saw it before at Moscow with great pleasure. 'Could I,' he exclaims 'then imagine, that just a twelvemonth afterwards I should enjoy the beauty of the closing day near an inn in Courland? I took out my pocket-book, together with my pen and ink, and wrote what you have now read.' About a month after his separation from his friends, he finds his heart more composed, and grows so plump, that he facetiously compares himself to the knight of the jolly sigure.'

One of our knight's common exploits is the visiting of famous authors; but this he always performs without any ceremony—he carries no introductions. 'Boldness,' he observes, 'which takes towns, opens the doors of philosophers.' His manœuvre on all these occasions is the same. He tells the unhappy sage whom he is determined to converse with, that he is travelling for the purpose of seeing the greatest living authors. Some are taken in; but others seem to have received his assaults rather coolly. Wieland, in particular, positively refused to harbour him, though he professed to have come to Weimar for the sole purpose of seeing the author of Oberon. However, by the most persevering importunity, he at last forced even this pass; and though the poet told him that the reason of his shyness was his fear lest an utter stranger might publish, according to the German sashion, the conversations which passed; and though our author remov-

ed his apprehensions, by faying he was not a German, and could

not write for the German public; yet he does publish, in German, a full account of all the interviews which he had with Wieland, containing the very words used by him in talking upon a great variety of topics; among others, upon the subject of his own peculiarities of feeling and habits. Such is the conduct of those who have their heads stuffed so full of sentiment as to leave no room for either prudence or propriety.

None of the authors upon whom M. Karamsin intruded, in his own easy manner, appears to have delighted him more than M. Weisse of Leipsig, the great writer of childrens books. 'He is a little man, about 60 years of age, whose excellence of heart beams in each feature. In his garden, he walks with a red night-gown and white hat; but when he comes home, he puts on a bag-wig, retaining the night-gown.' He treated our traveller

with lemonade.

At Frankfort, M. Karamsin observed, that, 'during bad weather, it appeared destitute of inhabitants, for then every body staid at home excepting those obliged to go abroad; but, in good weather, it seemed very populous, for then they are allured by the sunshine, like auts from their holes.' Vol. I. p. 203. After several other remarks, equally judicious and prosound, he is drawn aside from his general view of the town, by a very 'attractive solitary house,' with a 'small garden,' a most 'inviting old chesnut tree,' and, still more irresistible, 'a race of children.' So many charms, concentrated in one spot, prove almost too much for the fensibilities of this gentle Moscovite; and we are agreeably surprised when he escapes with a description of the race, and a farewell address to the house and the tree.

From Germany our traveller hastens to Switzerland,—' the country of innocence and blifs—where the inhabitants ferve none but God, lead a life that is only a pleafing dream, and therefore fearcely feel the pain of dying;—where sprightly lads and lasses play on the banks of the impetuous Rhine, pull handfuls of flowers, and throw them at each other;—the contented ruftic whiftles a merry tune, and gives the passengers a friendly nod. ' In such a paradife M. Karamfin is altogether overcome with his emotions: he cannot keep his feat, amidit fo many exquisite objects of fine phrenzy. What a country! What scenery!' he cries, when two werfts beyond Balle-and 'jumps out of the carriage,' throws himself on the 'blooming shores of the Rhine,' and 'kisses the earth in a stansport.' In a note, he adds, what our readers may probably have fome difficulty of believing, that he was then only twenty-four years old. He fometimes, however, asks leave to kiss the inhabitants as well as the ground, and meets with rather an uncourteous return from these children of nature. " بإنهم لأ fant's

fant's marriage, he is overcome with the happiness of the parties. and resolves to leave them a token of remembrance. He gives the bride a small copper coin—she stares, by turns, at the bridegroom, the gift, and the donor; who rejoices at their new happiness, and quotes fomething from Haller's poems. His love and bounty towards the all-interesting Swifs was not unrepaid; for though the engaging rustics did frequently laugh at him, they were often Thus, a young shepherd, in a valley, with a limpid streamlet, foliage, cottage, and the other ingredients of fentimental fituation, complied with M. Karamsin's request to give him a drink of water-faying, with a smile, Drink, my friend, a glass of our water. ' Nor was so wondrous an act of natural benevolence thrown away. 'I was about,' fays our traveller, 'to press the good-natured obliging man to my heart as my brother. Oh, my friends, why were we not born in those times when all men were shepherds and brethren?' Nay, such is the effect of a cup of Swifs water, that M. Karamsin declares, he would willingly renounce his superior knowledge and illumination, to regain the original state of nature. It also enabled him to read very clearly in the shepherd's eyes, at his departure, a fervent wish for his happiness. (II. 5. 6. & 7). But the grand enjoyment of this country was Lavater; whose vanity M. Karamsin fed, while he ate his dinners, and was permitted to purchase his MSS.; that is, his printed, but unpublished works, which the physiognomist would upon no account give to the world in the common way, but fold to as many as would take them from him privately. He discovers Lavater not only to be the best of men, but a truly great man; because he never reads the works in which he is either praised or censured; and is very angry with our brethren of the General German Review, for not comprehending Lavater's definition of the purpose of existence, viz. that the constant, most solid, and most fuitable existence, is the purpose of existence.' All this, our traveller thinks is not only correct, but perfectly familiar. truly great man, we are told, is a 'friend to ahs! and ohs!: and is captivated with two Danes, one of whom strikes his forehead, and stamps with his feet, while the other holds his hands. and fixes his eyes on heaven, whenever Lavater speaks with warmth, (II. 27).

After enjoying, in such delectable society, all the luxuries of laughing, kisling, weeping and sighing—with a thunder sterm, a water party, and weddings and sunerals in abundance, M. Karamsin set out for France. In his way towards the frontiers, he remarked some odd inscriptions on old houses. One of these contains a specimen of non sequitur, scarcely surpassed by any of our author's own reasonings. Build thy hope on Ged, for this house is called the Black Sow. At Ferney, M. Karamsin

this

ramfin meets with two young Englishmen on their travels. It would have been difficult for such a triple compound to have been formed, without some singular explosion— They drank some excellent wine, with the most devout wishes for the eternal felicity of Voltaire! (II. 101).

At Lyons, M. Karamsin finds ample allowance of sentimental food. He sees Vestris dance, 'with his soul in his seet;' is quizzed by two young Frenchmen, and, mistaking it for French politeness, is thrown into 'a kind of rapture;'—recollects that he is upon ground over which Yorick wandered in search of the tombs of Amandus and Amanda, and expresses no small assonithment, that the bustle of the Revolution should be so interesting as to make the Lyonnesse 'care very little about the monuments of love and tenderness,' (II 206).

In a receptacle for madmen, M. Karamsin meets with a suffer-

er, who excites in him a very natural fort of sympathy.

One of these unhappy beings was sitting on the gallery at a small table, and had paper, pen and ink. Immersed in prosound thoughts, he leaned his elbow on the table.—" That is a philosopher," said our conductor, smiling, "paper and ink are dearer to him than bread."

But what does he write?"—" God knows! probably nonsense; but why should he be deprived of so harmless a pleasure?"—" You are

right, answered I, sighing.' (II. 191.)

In Paris, our traveller fares, if possible, still better. Here his foul is in a constant flow He makes a pilgrimage to Ermeponville, and finds, that after a man has feen the fun fet on Rousseau's grave, he may say, 'I have had one happy moment in my life, '(III. 184). In the church of St Dennis, he feasts, among other things, on the portrait of the Maid of Orleans, who was, he tells us, the heroine of Voltaire's Pucelle, (III. 164). In the rue de la Ferronerie, where Henry IV. was affassinated, he would not live for the whole world; he is even enraged at his coachman for stopping on that ground, because it did not open to swallow up the detestable Ravillac, (III. 77.) wretchedness of an old beggar woman in the Bois de Boullogne asfords him an excellent treat, and upon very cheap terms; for, after drawing from her a full account of her miseries, and making her submit to a variety of sympathetic exclamations, he only presses her hand, and departs, (III. 31-2 & 3). The following passage contains a curious anecdote, if indeed we can at all rely on M. Kammin's information.

Here poverty often teaches people the most singular means of getting a livelihood: How many are there here who have not a single sous of certain income, and yet daily appear well-dressed at the Palais-Royal, in the theatres and public walks; and who, were we to judge from their looks, live as free from care as the sowls of heaven!—But how is

this done? In many different ways—they have methods without number of gaining fomething, which are not known in any place but Paris.

Thus, for example: a well-dressed man, of a noble appearance, who, over his dish of bavaroise, talks fluently, tells all kinds of pleasant anecdotes, and jokes with great ease and freedom, may be seen every day in the Casse de Chartres; and how does he live? By the sale of bills pasted up, which every night, when all others are askep, he tears down from the corners of the streets, and carries to the pastry-cooks, who give him a few sous for his trouble. He then lays himself down quietly on his bundle of straw, in some grenier, and sleeps sounder than many a Ciccius.

Another who is seen every day at the Thuilleries, and the Palais-Royal, and who, by his dress, might be taken for an ecclesiatic, is a sarmer; and what kind of a one do you think? He farms the hair pins which are lost in the Italian theatre. When the curtain drops, and the company are leaving the house, he makes his first appearance in it; and while the lights are extinguishing, he goes from box to box in order to search for the lost pins; not one of them escapes his Lynxeau eye, let it lie where it may; and when the last candle is extinguished, our farmer picks up his last pin, and with the hope of not dying next morning of hunger, hastens to the broker to sell him his treasure. III. 112.

It is fair, however, to warn our readers against implicit confidence in this traveller, whose ignorance and imagination are perpetually misleading him. Lavoisier, he says, has made all the Parisian ladies so fond of chemistry, that they analyse the sensibilities of the heart by chemical rules, (III. 69). At a meeting of the Royal Society of London, he saw, what, we believe, has seldom been observed by others, the President 'passing his judgment upon various works, but with great candour and moderation,' (III. 243). In Newgate he learnt that convicts often preferred being hanged in their native country, rather than being transported with bad company, (III. 232); and in a trading vessel, he heard a drunk steersman request the captain rather to throw him over-board than strike him, because that to an Englishman is worse than death, (III. 322).

In England, the last object of M Karamsin's tour, he is apparently so much exhausted with his previous delights, that he can scarcely enjoy himself at all. Besides, 'the English in general de not much care about sallad and garden herbs; roast beef and beef steaks are their usual food, and hence their blood becomes thick, and themselves phlegmatic, melancholy, and not unfrequently self-murderers,' (III. 200). Their hairdressers, too, are dull and clumsy. 'Alas, I am no longer in Paris,' he exclaims, 'where the powder-puss of the ingenious lively Rulet played like a gentle zephyr round my head, and strewed it with a resplendent white aromatic time!' (213.) Moreover, the climate begins to affect

affect even M. Karamsin. He surprises himself philosophising; but this, he says, must be excused as 'merely the effect of the air, for here lived Newton, Locke, and Hobbes,' (215.) He meets, however, with some things to console him in his distresses, particularly a number of beautiful children, 'all little Emilius's and Sophias;'—à blind beggar and his dog, which understood physiognomy—some ballad-singers, who gave him an opportunity of shedding tears: and then M. Karamsin is much more independent of external resources than most travellers; for he is happy if, after all the fatigues of the day, he can once more behold at night his 'dear partmanteau,' (III. 218.) He returns to Russia by the Baltic, and on his approach to its hap-

py shores, is overwhelmed with unruly joy.

This book was originally written in German, and we have sometimes been disposed to think, that the translator does not greatly improve his author. Thus, it is not usual, on the eastern side of St George's Channel, to bail the setting sun, (I. 52.) But some tropes of the same description cannot, we sear, be laid upon the translator. For example, the headach in his heart, of which M. Karamsin complains so piteously, (Vol. II. p. 116.); and the surprise which he expresses (ibid. 209.) at beggars and vagrants having, since the Revolution, become unwilling to work. We think the concluding remark of this author extremely judicious. After saying that his letters contain a true mirror of his soul, his thoughts, and his waking dreams, he asks, What is more interesting to a man than his own dear self? But perhaps others too will be amused with my sketches; perhaps—that, however, is their concern, and not mine.

Rien (fays Boileau) n'est beau que le vrai, et le vrai seule est

ART. VI. Scottish Scenery; or, Sketches in Verse, descriptive of Scenes chiesh, in the Highlands of Scotland: Accompanied with Notes and Illustrations, and ornamented with Engravings, &c. By James Cririe, D. D. Dalton, Dumfrienshire. 4to. pp. 420. Cadell & Davies, London. 1803.

This is a very pretty book to look at, and we dare fay would be very much admired in a country where nobody understood the language in which it is written. It is full of plates, and very handsomely printed, and possesses exactly that form and dimensions that are most susceptible of the embellishments of a beautiful binding. In these particulars, the publication has unquestionably great merit. But we do not think it altogether so well calculated for reading; and are really afraid that most of those

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those who take it up with such an intention, will very speedify lay it down again. It is necessary to observe, however, that we have read it faithfully through from beginning to end, and not without a certain species of entertainment. The work appears to us to be a fort of curiosity; and some account of it may probably be interesting to those who love to speculate on the

inequalities of human genius.

So large a quantity of pure prose was never divided before, we believe, into cuttings of ten fyllables, as Dr Cririe has here presented to his readers; and no instance has yet occurred to us, where so much labour has been bestowed on a poetical subject, with so complete a failure of poetical effect. We make these observations, however, upon the supposition that Dr Cririe intended to regulate himself by the ordinary standards of poetical excellence, and endeavoured to conform to the old and approved models that are commonly referred to in this department of literature. The uniformity and extent of his actual deviations, however, have compelled us to suspect that this is not the case; and that the reverend author, carried away by the innovating spirit of the age, has had the ambition of establishing a new school of poetry, and expected to set the example of an original manner of poetical description.

It cannot indeed be denied, that he appears to have borrowed a good number of hints from the inestimable treatise of the Bathos; but it must be admitted, that he has, in general, very much improved upon them, and that many of his devices for applying them are altogether and peculiarly his own. If we were to specify any one quality as peculiarly characteristic of this performance, we should pitch upon the admirable fidelity, and manly simplicity of the descriptions, which occupy so confiderable a part of it. In describing a city, for instance, a vulgar poetical writer is apt either to present fuch general and picturesque images to the fancy of the reader, as suggest a lively picture of its external appearance, or else to make some allusion to the great and interesting events that may happen to be connected with it. Dr Cririe, however, proceeds upon a much fafer and more fatisfactory plan, and contents himself with a fair enumeration of the parts which compose it. Of Glasgow, for example, he notices

The Royal college, far and justly fam'd;
Its churches, bridges, river, and its green;
Its buildings, spacious streets, and rising squares;
Of ancient date, the venerable pile. ' &c.

Edinburgh is represented, with equal accuracy and effect, with

High-tow'ring Arthur's Seat

Upon the right, and fair Edina's hills,
Her caltle, palace, and her deep funk vale;
Her bridges, buildings high, and spacious streets.

This plan of description, we must consess, is apt to give occasion to some apparent repetition; as the analysis of one city frequently assorbers pretty much the same results with that of another; but its advantages, in point of facility and precision, probably outweighed this inconvenience in the opinion of Dr Cririe.

In describing a landscape, the learned Doctor is scarcely less original. Painting to the eye, he knew, was extremely trouble-some and uncertain; and no colouring of words, he was sensible, could ever convey an exact idea of the appearance and properties of every individual object. What, then, does he do? Words are the only instruments he can employ; and, guided by the maxims of the soundest philosophy, he considers that the words most closely connected with external objects, and most fitted to suggest them with precision, are their proper names. And, accordingly, he inserts the proper name and appellation of all the objects around him, instead of embarrassing his readers with a vague or impersect description. In representing the prospect from Rosneath, for instance, he favours his readers with this ample catalogue.

Are near at hand; Gourock and Greenock seen Across the slood; Port-Glasow, Rensrew old: Glasgow afar, its smoke and gilded spires, Scarce break the level horizontal line.

Nearer, Dumbarton's wondrous rock and hills, Dumbuck, Dunfin, and, 'mid the tide, Ardmore. Nor let me here at hand the lake forget, Gair-Loch, with all its beauteous shores and woods, The noble seat of Ardincaple fair, Which vies with great Rosneath, already high, And rising still in beauty and renown.' p. 102. 103.

Here, besides the great accuracy and beauty of the description, the reader is charmed with a number of fine sounding names, that could never have been introduced by a dealer in poetical landscape. This is a beauty, indeed, that is scattered with great profusion through the whole poem, which contains many sonorous and significant appellations, that probably never stood in verse before. We have Killicrankie, and Dunniquech, and Turamel, and Tynedrum, and Freuchlin, Coryvreckan, Au, Oich, and

- Doch-Ard, and Lochy deep, Upon whose wouded banks stands Finlurig. '

Upon the same principle, he does not scruple to insert in his poem, all the vulgar or ridiculous appellations that may happen to be appropriated to the object in question. Thus, he calls the canal that unites the Frith and the Clyde, ' the Great Canal;' and celebrates the rugged mountains to the west of Inverary, by the name of 'Argyle's bowling green.' Whisky is called 'the

water of life, ' &c. &c.

Where the objects have no individual or proper names, he is contented with that of the species to which they belong, carefully avoiding every approach toward picturefoue expression. In giving an account of a grove, for example, he disdains to speak of the mixture of colours, or the alternation of light and shade; but he gives a very exact and clear enumeration of the forts of trees which compole it. The fobriety of the whole passage. indeed, affords an admirable contrast to those gaudy and confusing deferiptions with which the vulgar herd of readers are fo much intoxicated.

> ' Here spreads the level lawn, well stock'd with deer: Here trees coeval with the castle, stand, And wave their spreading branches high in air: The lime, the elm, the oak, the larch, and pine, The beech, and flender penfile weeping-birch, That vies with tallest aged forest trees. ' p. 60.

Although we have faid that Dr Cririe scorned to borrow an interest for his descriptions from any allusion to great and interesting events, yet it cannot be supposed that a man of his learning should pass such events over without any notice. The art, however, with which he guards against their communicating any degree of improper animation or splendour to his work, is really furprising. He states the fact, in general, in the fewest and simplest words, and places it in such a detached position, that so far from raising up any unbecoming degree of emotion in the mind of the reader, it usually passes over it, like an extract from a chronological table. For instance:

"I'was here the Roman legions cross'd the Tay. '--"Twas here his camp, well fortified, was pitch'd: 'Twas there his conqu'ring bands a check receiv'd. '-

In after-times, that caltle old was built, ' &c.

The same love of truth, and contempt for the vain exaggerations of ordinary poets, has led Dr Cririe, in many passages, to adopt a diction that is new in the poetical department. he speaks of a river, that wasts 'manufactures' abroad; and, instead of the trite imagery of a torrent rolling down swains, and trees, and cattle, he tells us that • In

In this place, its fury fwept away
Buildings of late.

If we pass from the consideration of the descriptions which form the largest part of the poem, and are all executed with equal judgement, we shall find traces of the same original genius in the subordinate parts of the work. The similes, for instance, are all of a very particular character. They appear, indeed, to have cost the author a great deal of trouble, and are scattered very sparingly through the work. The untimely death of a promising youth, to give but one example, has been frequently compared to the withering of a flower, or the cutting down of a tree. These, however, are obvious and homely images. Dr Cririe, with inimitable ingenuity, has contrived to give new dignity and pathos to the disaster, by comparing it to the loss of a diamond ring. The whole passage is well worth the attention of all lovers of originality.

Yet here, again, the Muse has cause to mourn: For Stone, emerging from the low obscure, Had scarce attention gained, ere, snatch'd away, He left the world its darkness to deplore. The sparkling diamond thus, with dazzling light, Emerging from the darkness of the mine, When polish gives its lustre to the day, With bright effulgence, blinds the Artist's eye, Unable long its slashing light to bear. Yet, thus, the spaining treasure, source of joy,

When left, affects the mind with grief fincere. 'p. 48. 49. The fingular turn of mind that suggested all those improvements upon the usual style of poetry, has not failed to manifest itself in the opinions and sentiments of the author. In commemorating the charms of Loch-Lomond, he seems to think of nothing but its size, and exclaims, with equal elegance and spirit,

'To thy stupendous fize, what's Derwent Lake? What all the Lakes of Cumberland to thee?'

It is with great reluctance that he afterwards acknowledges in a note, that 'a fmall island, such as Scotland (what is the island of Scotland?) admits not of lakes, such as Aral, Baikal, and the Caspian, or of such as spread their vast waters in North America, and are the boast and wonder of a world.'

In another place, he tells us of a river whose 'madding fury' is appeased by the beauty of his banks, and the songs of the birds that frequent them.' The ill-concerted expedition to Darien is then termed 'the most glorious enterprise of ancient or of modern times. The Epigoniad is denominated an immortal poem; and finally, the climate and fertility of the Highlands of Scot-

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land are faid to have degenerated and fallen off lamentably of-

late. In proof of which he afferts,

'The Capercailly, fince, hath also fail'd;
The deer their ancient haunts have mostly fled;
And who can tell what tribes have been forgot?
The seasons too have also chang'd, from mild
And gently warm to stormy cold,' &c.

But the highest flight of metaphorical sublimity which the author attains, is in describing the effects of the noise made in hunting an otter. The clamour of dogs and men, he says, was

so great upon that occasion, that

Around the lake, fuch piercing shouts ascend, And, trembling, dreads some bold usurper's grasp To wrest the sceptre from his aged hands."

The images here, it will be observed, have all that indistinctness and incongruity that constitute true grandeur and animation.

The learned author's partiality to profe does not influence his diction only, but may be traced in many of the peculiarities of his verification. Blank verse, it has been said, is verse only to the eye; and of Dr Cririe's blank verse, this is correctly true. By far the greater part of it, if printed like prose, would certainly have passed unsuspected by the most tuneful readers of the nation. In writing it out into lines, too, the Doctor has by no means adhered servicely to the rule of making them all of an equal length. Some have two or three syllables above the standard; as,

'Mid the howling of the wildernesses dark gloom'——
'Anon the water too is seen—'tis great Loch-Long.'

Others have too few,

' Seen in thy roads Inch-Keith's green isle

And fortress old '-

'Hayfield, Macdugald's beauteous feat '---'The woods and wide fpread flood below,' &c. &c.

At the same time, that he may forseit none of the privileges of poetry by disuse, Dr Cririe has made a very free use of those bold inversions, from the harshness of which other poets have generally shrunk back. Thus he says that, in ancient times, the shining ploughshare,

than the sword,

Not less became the generous warrior brave.

And afterwards,

Nor great Lemanus, flood the' copious, boafts, ' &c.

We have forgotten all this time to explain to our readers the plan and object of this extraordinary publication. It is a correct journal of a tour in Scotland, every stage being the subject of a separate chapter; and all the incidents of the state of the weather.

ther, and the fatigue or fatisfaction of the traveller, are inferted, along with a faithful enumeration of all the objects and reflections that presented themselves as he went along. To this are annexed, hearly 200 pages of Notes and Illustrations, consisting principally of extracts from the Statistical Account of Scotland, and references to school-books, in evidence of the author's erudition. If the price of the volume were a little more moderate, or its size better adapted for the pocket of a postchaise, it might not be without its utility as a travelling companion. It certainly contains more names of places, than any book of the roads we have ever met with; and the engravings, which are about as correct as travellers are in the practice of publishing, might assist ladies and gentlemen in their descriptions of such places as they passed in their sleep, or were too much hurried to go to.

ART. VII. Voyage en Islande, sait par ordre de sa Majesté Danois. Traduit du Danois. 1802.

THE King of Denmark having heard, by accident, that there was a large island in his dominions, called lockand, directed the Academy of Sciences to scleet some missionaries of science for the purpose of exploring it. The Academy, in obedience to his commands, appointed Messrs Olassen and Povelsen to that frigid and curious office: the first, an Icelander by birth; the latter (strange to tell) living there, though born in another country. The result of their labours is this very tedious and authentic book.

The Danish Academy (because perhaps they considered that nothing amufing could be dignified), have divided this work into four parts, corresponding with the four divisions of the island, into North, East, South and West. A prodigious number of topics are treated of in the first division, and the same order of fubjects is purfued, with a fort of ponderous decorum, through the three others; fo that we have four differtations upon the Icelandic method of feeding cows: And having afcertained, with the utmost precision, the quantity of salt insuled into the butter in the Northern hemisphere of this ancient kingdom, an agreeable, though gentle, surprise is excited by the discovery, that the salt butter of the South confifts exactly of the fame proportions; a sensation which swells out into full and entire satisfaction, when we come to know that the same wonderful ratio pervades the dairies under the remaining points of the compass; that butter is muriated upon one great leading principle through the whole of Iceland; and the question of flayour and conservation determined. mined, not by local caprice, but by pure and steady reason. Upon the mode, however, in which this work is executed, we shall

have more to fay towards the close of the review.

Iceland is best known from its natural curiosities, and from the asylum which it afforded to learning in the early ages. There is something very singular in the fact, that letters should have flourished most vigorously in the most remote, and most inaccessible part of the world; and that men should have tound any means of cultivating the luxuries of knowledge, where the sterility of nature seems almost to have denied them the necessaries of life—Ingenium male habitat. Upon this cold and frozen rock, poets sung, historians recorded, and legislators decreed, for future times. Man never gained such a victory over circumstances, nor rose so support from their unwilling country, after having extracted support from their unwilling country, adorned it with works of genius which were luminous in the darkness of Europe, and which retain some share of lustre at the expiration of eight centuries, when Europe is dark no more.

There must be much bodily idleness in any country, before there can be much literature; a remission of manual labour, before there can be much intenfences of mental exertion. If a few good books are handed down to us from any period, it amounts to a proof, that the same period must have given birth to many bad ones which we have never feen; because there is no such capricious prominence of genius, as, that one or two men should reflect, and compare, and compose, while every thing about them is brutal and ignorant: The fact is, that many try, and perish; and a few, who do better than the rest, are handed down to posterity. Upon these principles, it is difficult to conceive, how fuch a country as Iceland could have found leifure for literature. We should have imagined that her poets and historians must have been driven by hunger, where the Roman heroes often went by choice, to the plough; or that every fpark of genius and talent which the possessed, must have been employed in catching fish. Yet Sir Joseph Banks, upon his return from that country, prefented the British Museum with more than three hundred Icelandic manuscripts; and if a mere stranger could carry away so many reams of genius, in what numbers must they be found in the libraries of Copenhagen, and among the collectors of the country?

These travellers open their account of Iceland, by observing that the ordinary winter cold of Iceland is not very considerable, from 20 to 24 of Fahrenheit. When the heavens are very serene, the thermometer falls to 12, and has been sometimes as low as 40 below the freezing point. The period of the greatest

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cold is from January to March inclusive. In April and in May, the winds set in from the east; and sometimes with such severity and obstinacy, that the cattle exposed to them perish in gr at numbers, and the vegetation of the ensuing summer is materially checked. The heat of the summer in Iceland is as variable as the cold of winter is continuous; it will sometimes freeze in the intervening night of two days, in both of which the thermometer has stood at 70. Exposed to the sun, the range of the thermometer, during the summer season, is commonly from 80 to 90 degrees; and the heat sometimes so intense, that every body retires in the day-time, and agricultural labours are pursued throughout the night. The range of the barometer is about two inches.

The principal minerals which Iceland produces are, the sulphat of iron, and the two principal ingredients of which that salt is composed. The Icelanders have no coal, but inexhaustible bogs of peat. The principal circumstances which render the herbage and the hay of Iceland so bad, are—the prevalence of the equifetum, which the beasts eat with great avidity and detriment—the want of enclosures, which are now entirely neglected—a deficiency of manure, and the very impersect manner in which their hay is made. In the western parts of Iceland, they follow the English method of hay-making with some better success. The travellers remarked a considerable improvement in the soil, in their approach to some of the mountains; it was more tenacious, and the plants more succulent. This amelioration they attributed to the previous influence of volcanic sires.

The Icelanders are feldom remarkable for that ruddy complexion, so common and so pleasing in the rest of Europe. Those who inhabit the interior, occasionally acquire it; but all the inhabitants of the sea-coast display on their countenances the severity of the elements to which they are exposed, and the hardships which they endure. There certainly can be no superfluity of vigour, or redundance of health, in those who are out whole days upon the sea, unsheltered from wind and rain, and sitting to the depth of one half of their bodies, in sea-water. The diseases to which they are principally exposed, are, pneumonia and hypochondriasis. * The women suffer much from amenorbea.

The Iceland houses, in a village or town, are built in a line, and covered with green turf. † The fugade is either white-washed.

It is a very furprifing fact, that fyphilis never made its appearance in Sceland till 1753, not long before it reached Otaheite. Vol. V. 221.

Glass is very dear in Iceland; the windows are made with the morion and amaion of a cow.

washed, or smeared with a certain red earth; and a neat trottoir of slat stones runs before the doors. The manner of building is better adapted to the nature of the country than any other: It protects the inhabitants from cold more effectually than walls of masonry, and remains firm during earthquakes, which would overthrow houses of a more losty structure. They are but too frequently put to the test; and the examples are very numerous, of large Iceland villages which have escaped with perfect im-

punity from a very severe shock of an earthquake.

An Iceland peafant generally breakfasts and sups upon curds. from which the whey is pressed out, and which are diluted with four or fresh milk: At dinner, he eats dry fish, both summer and winter, with the same preparation of milk as at his two other meals. His usage of bread is very sparing, as there is not a fingle blade of corn cultivated upon the whole island; and meal is, to the Icelander, an high-priced and exotic delicacy. every country, there are certain dishes, which are as much articles of faith, as articles of luxury, and which the native eats as well for the fafety of his immortal, as for the gratification of his mortal half. An Icelander would confider himself irretrievably loft, if he did not eat hung beef at Christmas and Easter. vulgar prepare and confume it, with trembling precision, after the manner of their fathers; and the boldest fceptic, who indulges himself by laughing at the principle, thinks it as well to comply with the practice.

Those who will not read, must be contented with ignorance; nor can men of reslection in this country expect to understand the true nature of sour butter, if they will not read a differtation upon that subject, by M. Pingel, Counsellor of State, written in the Danish Mercury for the year 1754; * and the masterly observations of Horrebow upon the same subject. † It appears clearly, from the labours of these wonderful men, that the large magazines of butter mentioned in the Chronicles of Iceland were not of salt, but of sour butter. Salt butter cannot be safely kept above a year. Common butter, well pressed from its whey, becomes sour at the expiration of six months, of a white colour, and so incorruptible, that it may be preserved for years. The Icelanders universally preser it to salt butter; and, in Catholic times, the monasteries had large chests of it, forty seet long by

feven feet high.

Tolerable beer is brewed in Iceland, but drank only on occafions of great festivity; their common drink is whey in its ordinary state, and another preparation of whey, which, after hav-

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ing been long kept, undergoes the vinous fermentation. Cows milk, whey pure or diluted with water, and, in times of scarcity, even fish, both constitute the nourishment of children. land woman rarely fuckles her child above three or four days: A most extraordinary fact, which is stated without the least explanation; though it probably arises from the necessity the women are under of labouring hard for their support, and their inability to endure such a drain upon their strength, especially with the very meagre fustenance which they are in the habit of taking, The men occupy themselves, part of the winter, in making woollen flockings and caps, though many of them continue their fifting throughout the whole of the year. All the peafants who hold from the Crown are compelled, at a certain feafon of the year, to work on board the packet-boats, or find a substitute. The first labour, as soon as the ice is melted, is to dig turf for the enfuing winter. At this feafon of the year, the women take care of the cattle; a task which devolves upon the other sex in

winter. The hay harvest begins in the middle of July.

All laws originally, and in the infant age of focieties, teach economics, as well as virtue and vice. There is a period of groß ignorance, in which it is important to show men how to gratify their wants, as well as to restrain their passions. Some few may be acquainted with a rule better than that which the law prefcribes, but the many know none fo good. In after times, when experience is gained, and knowledge easily communicated, many points are left to discretion which were before matters of positive institution; but almost all early codes are as imperious about reaping, fowing, and thrashing, as they are about murder and theft. To this day, the Icelanders pay the most implicit submission to the ecconomics pointed out by their old laws; and churn, and carve, and fatten, and manure, according to the letter of a statute. Wages are of course fixed by the same authority; an institution upon which Olafsen and Povelfen expatiate with peculiar complacency, and which they commend with plenary approbation: But as Messrs Olassen and Povelsen were sent over to see and hear, without having any orders to reason, we shall pass over this voluntary and extra-official philosophy without severity or comment.

The Icelanders have all that general acuteness and dexterity which results from the complication of labour in one person. The same peasant is frequently forced to carry on the trades of watchmaker, locksmith, carpenter, brazier, &c. &c.; and though each trade is but imperfectly executed, the fertility of resources are from these multiplied occupations frequently produces the most

most ingenious contrivances, and nourishes a strong genius for mechanics.

The Icelanders are great wrestlers and players at ches; but their principal amusement consists in reading the ancient poets and historians of their countries. While the rest of the family are spinning and carding round him, in the long winter evenings, a person scleeted for that purpose reads aloud to the whole group; and a long habit of this sort has given to the Iceland peasants a considerable degree of curiosity respecting the history of their ancestors. It cannot be supposed that these histories, so much relished by the vulgar, are very beautiful in composition, or profound in remark: they are probably not many degrees elevated above the lepid sables of Mrs Goose; but they create cheap and harmless occupation, and promote civilization, by making the powers of the mind an object of veneration to men whose situation might incline them to respect only those of the body.

Iceland exhibits the fame traces of large ancient forests as many other countries do which are now entirely destitute of trees. Trees of a great size are continually dug up in the bogs, though it is now almost impossible to rear any timber at all in the island. The fact is, that the spontaneous forests of cold countries generally begin in some warm sequestered spot; under the cover of the earliest trees that have sprung up in these savourable circumstances others are reared; and the skirts of this first mass assord shelter and (by the fall of the leaf) manure to young sucklings. Without attending to this process, future cultivators begin with an exposed situation, and wonder they cannot rear forests where forests grew before. The ancient existence of large forests in Iceland does not however depend upon conjectures; their numbers and boundaries are described with the utmost accuracy in the ancient histories of the country.

Prodigious quantities of floating wood are cast ashore upon the coast of Iceland; particularly, towards the north, there are at least ten or twelve different species of timber brought by these drifts. The general idea is that they come from America.

Nature has crowded together a great number of sublimities in this island. Heat and cold have united their effects to enhance the grandeur of the spectacle; and hailstones and coals of fire run along the ground. The traveller who quits this peaceful country to see nature in all her energy, will contemplate with astonishment the Glaciers of Geitland, covered with ever-during snow; Hecla showering fire over the bleak plain; the roaring Geiser shooting up its boiling streams two hundred fathoms to-

^{*} Particularly in the Kialnefinga Saga, and the Landnama Saga.

wards the skies; the Avalenche, crushing man, and beast, and house, in its descent; the waves casting forward towards the shore huge rocks of Greenland ice; and, high above all, the Boreal lights dancing and playing over the whole field of heaven-retiring for a moment from human eye into the infinite regions of space—then coming back with fresh lustre, and sparkling with

every colour, and shape, and variety of flame.

Human ingenuity, ever ready to catch at the faintest analogies, has attempted to establish some connexion between the eruptions of Hecla and of Vetuvius; but the notion is perfectly chimerical, and entirely contradicted by facts. From attending to the date of their respective performances, we will venture to say, that they are entirely ignorant of each other's existence; and have never dreamt of entertaining that submarine correspondence, so acutely im-

puted to them by naturalists.

In that part of their book which relates to the natural history of Iceland, Olafsen and Povelien occasionally display a credulity truly laughable. We all know that foxes love eggs. When the Iceland foxes come to the fpot where they expect to find crows eggs, they begin to wrestle, in order to find out which is the strongest. This done, the Samson of the foxes takes his next neighbour's fail in his teeth, who takes another tail in his turn, and fo on, till the vulpine string, hanging over the rock, is long enough to reach the eggs; which are then handed up, by some unintelligible process, from one to another, till they arrive in safety at the top! Messirs Olassen and Povelsen do not implicitly believe this story, though they are more than half perfuaded of its truth. They are wholly devoid, however, of this tinge of scepticism in relating the navigations of the Iceland mice. When they wish to cross a large and deep river, six of them embark upon a bit of dry cow dung, their provision in the middle of this ex-vaccine vessel-their faces turned to each other, and their tails in the water, to perform the functions of rudders. The Danish missionaries see no reason to question the authenticity of this anecdote.

In page 65. vol. II. they relate the existence of some curious mineral waters at Hitasdal, which have such a power of intoxication, that they are equal in strength to the strongest beer. They took confiderable pains to examine the earth adjacent to the Geiser, and the other hot springs; and uniformly found that the heat did not reach above 12 or 14 feet; at which depth, they came upon the hard lava rock, the production of some previous volcano. In an examination of this kind, a fresh, though inferior, geiser broke out of the ground, and shot a large column of hot water upwards to a confiderable height; a phenomengn

phenomenon which it continued to exhibit at intervals while

they remained in the neighbourhood.

One of the most striking natural curiosities in Iceland, is the Ilversvalle, or roaring mountain. Through an aperture in the rock, of three or four inches in breadth, a thick smoke rushes, with a noise loud enough to drown the strongest human voice at the shortest distance; and the blast is so prodigiously strong, that small stones, which they attempted to fling into the aperture, were driven out to a confiderable distance. It should be observed. that the whole of this furvey of Iceland was made before the year 1760, and consequently before the great discoveries in aerial chemistry; so that the report of Messrs Olassen and Povelsen contains no fort of information respecting the gaseous productions they met with; nor indeed do they seem to be informed even up to the state of chemical science of that period. The Academy of Copenhagen appears to have had it in contemplation to procure as much knowledge for as little money as possible. The Iceland travellers are perpetually complaining of bad and broken instruments, and do not appear to have been possessed even of these in great abundance.

The character of the Icelanders is good. They are calm, discreet, orderly and serious in their religion, capable of great labour of mind and body, and accustomed to live upon little; not abounding much in men of genius, but producing, in the various universities of the North, many zealous and indefatigable scholars, who have struck with successful vigour into the most intricate and untrodden paths of literature. They are as fond of their country, as all mountaineers are said to be. Not that we are thorough converts to this supposed connexion between altitude and patriotism; but we leave the hypothesis as we find

it.

The potato, that modest vegetable of Catteau, has with some difficulty sound its way into Iceland; but they have in vain attempted to introduce the culture of grain. The Danish government has even been at the expence of sending over Jutland farmers for that purpose; but the corn has either never appeared above ground; or appeared, and never ripened; or ripened, without growing hard enough for thrashing; till, at length, the most sanguine improvers have been compelled to relinquish the undertaking; finding it easy enough to drill a field, but impossible to prepare a climate for their crops. Messrs Olassen and Povelsen think that the soft corn might be baked after reaping, as it is in the island of Ferro. But this is bad policy; for if price is disregarded, any thing may be grown any where. The object is not to produce, but to produce with economy; and where the

difficulties are so great in effecting any one object, it is better to relinquish it for another more adapted to the genius of the climate.

Nothing is more striking, in this publication, than the decay of power and population in Iceland. But it has been for centuries the prey of famine, * epidemic diseases, and murrain among the cattle. Every canton in Iceland contains vestiges of deferted farms; but towards the north, there are whole cantons entirely deferted; and others in the district of Skagefried so languidly cultivated, that they may almost be said to be abandoned. the canton of Flioten, there have been twenty-five large farms abandoned fince the beginning of the last century. The causes of this melancholy defertion, besides the physical ones we have already mentioned, are, the avarice and negligence of the Danish government: for, at the period to which this report refers, the improvements in the Iceland commerce, suggested by Bernstorf, had not taken place. The trade with that country was a monopoly farmed out to a fet of merchants, who, of course, fold to the Icelanders the worst commodities at the highest prices; and the people, who could scargely contend with the evils of climate, were doomed to struggle with all the discouragements of a bad government. The demand for men is so easily supplied, and the blanks occasioned by unusual mortality so soon filled up, that political economists would hardly allow the various pestilences, by which Iceland has been affected, to be a sufficient explanation of its present reduced population. But this question is quite a relative one; and the rapidity with which human life is renewed, must be proportionate to the advantages of the particular county in which the experiment is to be tried. A country, with every bleffing of climate, foil, and government, may fill up the vacancies occasioned by a pestilence in fifteen years, which such a country as Iceland could not supply in three hundred. It is true, that nature always reproduces, but with such different degrees of facility, that a ferious mortality may, for a great length of time, be a very fufficient explanation of a decayed population. Independently of all this, there are strong, but slow causes, always at work, to dispeople Iceland, Holland, and the fag-ends and corners of the earth. They are originally peopled only by the

^{*} The diffres in Iceland is frequently so great, that their cows and sheep are nourished with the head, entrails, and fins of fish, and, in years of less severe distress, with the fish themselves. Mr Stroem, in his Sendmamornia, has a very long and minute discussion upon the use of the heads of red herrings, and dried stock-fish, in feeding cows, p. 381.; a topic, in rural economy, strangely overlooked in this country.

the victims of perfecution; and there is always a fitrong temptarion to quit them, in proportion as the facility of communication increases among civilized people, and as peace and liberty are to be enjoyed in more beautiful climates. Patriotism, refulting from early association, and from principle, prevents any thing like exact proportion between population and the maximum of moral and physical good which human beings can obtain. But, cateris paribus, there is a slow tendency in manking to escape from the violence and sterility of nature to the scenes of her goodness and glory; and this, in the course of ages, will leave Iceland to the seals and the bears from whom it was originally wrested, and to whom it had better always have been left.

Messrs Olafsen and Povelsen may perhaps be extremely difpleased with the low estimation in which we hold the object of their furvey; but we fairly own, we owe to these Reporters some little grudge for their merciless and needless prolixity, which we only remember to have been exceeded by a very worthy country clergyman, who left behind him sketches for a history of his parith, amounting, in bulk, to two large quarto volumes, and which his executors, who were luckily not of the fame parish, with much wisdom committed to the slames. Upon many important topics, the education and the commerce of Iceland for example, thefe travellers are very deficient. They have found out the fecret, if any fecret it be, of writing much without writing to the purpole, and of exhibiting quantities of truth without affording fatisfaction. As a book of reference, their report is not without its value. Those who collect libraries will do well to add it to their mass. He who has no particular purpose in perusing it, but wishes to gain information about Iceland, without paying too dearly for it in patience and time, had better liften to the warning voice of Reviewers, and decline acquaintance with Messrs Olassen and Povelsen.

ART. VIII. Georg Christoph Lichtenberg's Vermischte Schriften, nach dessen tode herausgegeben. Göttingen. 1803. 5 binde. The Miscellaneous works of George Cristophe Lichtenberg, published after his death. Göttingen. 1803. 5 vol. 8vo.

GERMAN literature has scarcely ever been fairly appreciated in our country; it is either harshly and injudiciously censured, or foolishly and ethusiastically praised; it has had partisans and opponents in plenty, but sew intelligent judges. Nor is it perhaps very wonderful, that a just opinion should not be immediately

mediately formed by foreigners upon the merits of a class of water ters that have been known at home for little more than fifty years. It is generally known, that the authors of Germany after the revival of letters, composed for some centuries chiefly in the Latin tounge, and neglected their own. In these circumstances, they could not easily become popular; and although they displayed astonishing perseverance and great learning and acuteness, together with as much invention, perhaps, as any of their neighbours who devoted themselves to similar studies, their labours appear to have been rewarded by the general derision of Europe. A German or Dutch commentator became proverbial for dulness. When they at last became ambitious of the higher rewards of literature, and began to compole original works in their vernacular tongue, they had innumerable difficulties to encounter. During the earlier part of the last century, and the whole of the foregoing, every circle or petty principality had its peculiar dialect; scarcely intelligible to the inhabitants of the adjacent territories, and full of phrases completely foreign to the more remote provinces. The two grand divisions of Roman-Catholic and Protestant, or Austrian and Prussian, opposed a strong bar to the internal intercourse of the nation, and to the cultivation of its language. No common metropolis existed, no national theatre, parliament, church or law court. Each nation detested the political and religious establi ment of its rival, and communicated to the individuals of which it was composed, a degree of hatred, greater even than that which has so long divided the English and French. smaller states, nearly three hundred in number, adopted the animolities as well as the politics of their superiors; and it is to far from being wonderful that Germany should be behind the other great European states in the cultivation of its language, that our aftonishment should rather be excited by the view of the improvements which the last fifty years have produced. We must not, however, compare the German style in the middle of last century, with the style of England, France, or Italy, at the same period, but rather with the French in the reign of Menry IV., the English in that of King James I., and the Italian in the fifteenth century, when their first great poetical compositions, which usually fix the language of nations, had just begun to produce their effect. The works of Haller, Klopstock, and Wieland, and this for the language of Germany; and established, for their fuccessors, a standard of classic vigour and elegance only about half a century ago.

The Germans now, however, write as correctly as any other nation. Some of their classical authors do great honour to mo-

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dern literature, and prove that the opinion of the great Prussan Monarch was fallacious, when he declared it impossible to compose a work of taste in his native tongue *. Had he been as familiar with the volumes of Wieland, Goethe, Garve, and Herder, as with those of Voltaire or D'Alembert, he would scarcely have made this affertion. The difficulty of their language, and their unhappy practice of translating every publication that became popular among their neighbours, made it generally believed, that the Germans possessed no stores but what were borrowed either from the ancients, or from Britain or France; and that neither instruction nor amusement were to be derived from their original compositions. Some admirable essays of Mr Lessing, however, found their way to England. and conduced, along with the illustrious names of Haller and Klopstock, to convince the few who could read the originals. that the Germans could not only translate, but write what was worthy of being translated. During the American war, the intercourse with Britain was strengthened by many well known causes. The German officers in our service communicated the knowledge of their books and language. Pamphlets, plays, novels, and other light pieces, were circulated in America, and found their way, after the peace, into England. The name of Leffing, revered by every well-educated German, became almost as familiar, as that of Addison or Fielding, and paved the way for the less respectable works of Schiller, Kotzebue, and Iffland. These authors, perhaps the most popular dramatic writers of the present day in Germany, are well known over the North of Europe; and the works of the two former are at least sufficiently known and admired by the inhabitants of this country. Sheridan has condescended to be the imitator of Kotzebue; and Schiller. unquestionably a man of uncommon genius, is the avowed model of those poets, novellists, and playwrights, who, without any genius at all, have succeeded in captivating the public attention, by an engaging display of furious lovers, frantic heroines, blasphemers, fatalists, and anarchists of every description.

It is curious to observe the vicissitudes of literary fashion, and the alternation of national imitation. The Germans were slavish translators of our belles lettres, philosophy, and history, for a century. A similarity of national taste prompted them not only to admire Shakespeare, Milton, Shaftesbury, and Locke, and our historians Hume, Robertson, and Gibbon, who are as well known, and as much relished in Germany as in Britain, but also to adopt the prejudices which have bestowed a certain degree of reputation

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^{*} Effai fur la litterature Allemande. Berlin 1780.

on the affectation of Sterne, and the flowery fanaticism of Hervey. When it was our business to translate, however, we scarcely fucceeded to well. When the fearcity of domestic genius combelled us to have recourse to importation, we carefully picked out all the drofs, and as cautioufly threw away the valuable ore; fo that, for these fifteen years, it has been a common and a reasonable opinion in that country, that profligate plays, forbidden to be acted in their most cultivated provinces, and novels inculcating fuicide or adultery, constitute, in the opinion of the British nation, the most valuable part of German literature. Among ourselves it has sometimes been supposed to form the whole of it; and hence the odium thrown upon it, and the belief which has prevailed, of the atrocities, political and moral, of the principles of German literature. We possess, indeed, very sew translations of respectable German works; and the mischief that was reasonably apprehended from the contagion of those we have had the folly to receive, has been sufficient to induce many to reject, in the lump, the productions of that country. The Germans complain of us on this account, and with some appearance of reason.

The author, whose works we are now to review, and who made a confiderable figure in the literary circles of Germany for many years, wished to remove those prejudices, by opening the eyes of the liberal-minded of both nations. He had passed some time in England, and been admitted to the best company in the metropolis and the country. He was intimately acquainted with ancient and modern literature, and possessed much critical acumen. and taste, and humour. The innovations he condemned in his own country have fince become ridiculous, and have owed their repression, in some degree, to his exertions; for he was indefatigable in affailing them in his writings, which, in the forms of Almanacks, Magazines, and Reviews, had an extensive circulation through the whole German empire for thirty-fix years. He refided in Göttingen during the greater part of his long literary career, and witneffed the rapid advancement, together with the dangers and aberrations of the literature of his country. Many of the charges brought against it by the King of Prussia and the French Literati, as well as those which we are accustomed to repeat from hearfay, he has examined in a very skilful manner, and with such exemplary impartiality, that if he had not written in the language of the country, he might have been mistaken for a native of France or of England. His dispute with Zimmerman, on the subject of Lavater's physiognomy, made some noise in Germany, between the years 1771 and 1778. The merits of that controverly are amply discussed in the 3d volume of this work, which, with the 4th and 5th, contains a republication of detach-

ed papers, printed at different periods, and in various forms, by the author. They relate chiefly to matters of temporary interest; and many of them feem fearcely worthy of being fnatched from the oblivion into which they were ready to fink. Like many learned men in Germany, M. Lichtenberg devoted his talents and pen to miscellaneous literature,—writing, upon all subjects, with much industry, and with little connexion. His largest work is his 'Illustrations of Hogarth's Prints,' which is not included in this compilation; nor do we find in it his defence of the hygrometer, and De Luc's theory of rain, occasioned by Mr Zylius's

differtation on those subjects, published at Berlin in 1795.

The two first volumes of the collection before us, contain miscellaneous remarks on the German literature, of which our readers may be curious to acquire some knowledge. These are found in detached memoranda, kept by the author during the greater period of his life, and are printed with scarcely any regard to dates or arrangement. The editor, however, gives the posthumous pieces under different heads, in the following feries: 1. Philosophical remarks. 2. Psychological remarks. 3. Moral remarks. 4. Observations on man. 5. Physiognomical remarks. 6. Political, literary, fatirical, &c. remarks and observations. Lichtenberg appears to have projected a long fatyrical poem, the topics of which we shall enumerate, merely to show our readers the opinion of an acute and experienced man, respecting the actual condition of German morality and tafte.

6 Objects of fatire in my poem .- Fashions and dresses. Bad theatre. Irreverence for old age. Indifference of our Magistrates. Affectation of students. Cringing of professors to rich pupils. Forced marriages. Situation of baftards. Low marriages. Sen-Novels. Lunacy. Trifling causes of wars. Soldiers. Bad roads. Games of chance. Forgetfulnels of original equality. Newlpaper advertisements. Canonization. Ignorance in cloysters. Monks. Exclusive right of the nobility to the higher offices. Anglo-mania in gardening. Inquisition. Superstition of the rabble. ' Vol. II. Introd.

This intended poem was never finished, and probably never

begun.

In the beginning of his work, M. Lichtenberg describes the fymptoms of a violent intellectual epidemic, that committed great ravages upon the taste of the Germans about thirty years ago, and threatened its absolute destruction: he terms it the rage der empfindsamen und kraftgenies, i. e. the soi-disant men of genius, who pretended to excellive fensibility, originality, and force. These personages boasted of being superior to the trammels of rules, and to the prejudices or advantages of education. They affected to exclude every fentiment from their works, which was found in any former writer on fimilar subjects. No law of the drama, no order in reasoning, no consistency of parts, no method, symmetry, or precision, were defired or admitted. A wildness of language, confused gigantic imagery, conveyed in the most bombastic, or perhaps in the most gross and familiar terms, were made the vehicles of filly and pernicious doctrines. Germany was pestered, for upwards of twenty years, with the essuince of these Geninses (Genies); many of their writings still continue to be admired, and influence, in some measure, the philosophy and language of the national writers. Our author describes their first appearance with some humour. (Vol. I.

p. 67.)

Before the battle of Rosback, the idlers were in great want of novels. We read English ones indeed, insomuch that we knew every fireet in London, and the gallows at Tyburn, as well as our own . We ogled in the Park, and did our best in Covent-Garden, and so gave you, O German readers, many a novel. "But," faid you, "this is nothing; we must have German original characters!" We were tempted to answer, somewhat rudely, "Go to those who sent into the world and educated our dear countrymen—fuch as they are—and don't blame ne for describing the creatures we see and hear. Can we help the want of originality?"-" Then give us poems!"-" Do we not give you tons of them, from the breadth of an inch to that of half a foot, and of every possible length?" All would not do. You gave the word of command: and although we poor fellows have ever had one eye turned to the left bank of the Rhine, and the other to the west of the English Channel, something original must positively be produced to you. You insist on our throwing away our old quills .- There they go-they By from our hands like the leaves in autumn. Behold at once thirty Yoricks starting up, riding their hobby-horses round a point which they might have reached at one step the day before: and the man who formerly was conscious of no inspiration from contemplating the ocean or the starry heavens, now pours forth sentimental and devotional exclamations on a fnuff-box. Shakespeares rife up in dozens; if not all at once in tragedies, at least in reviews—and there you see a combination of ideas which never met before out of Bedlam. Space and time are clapped up in a nut-shell, and shot forth into eternity. In the twinkling of an eye, we looked deep into the human heart: goffipping filly histories become profound knowledge of human nature. Even in Bœotia, I yonder a Shakespeare arises, who, like Nebuchadnezzar, eats grais

The fouth and eastern parts of Germany are so called by the Protectants of the northern circles.

^{*} In Germany, every town has a small elevation close to the principal gate, on which a gibbet is erected, for breaking malefactors on the wheel.

grass instead of Frankfort loas-bread; and makes our language original, by violating all its grammar. Lower Saxony snuffles her odes; sings, with expanded nostrils and open throat, of patriotism, of style, and of a country which wishes her at the devil. In every corner you hear songs and novels, far more difficult to understand than to compose.—Well, we had originals now; but what said the public? "Gentlemen authors, ye are no originals—ye are poets from poets, not from nature. Our capital stock is not in the least increased; we only exchange one coin for another of baser metal, and receive lead and brass for our fine gold. Ah, wretched originals!" &c.

There is much of this coarse and slippant raillery in the volumes before us. Perhaps the want of dignity in the mode of chastising the absurdaties of the Energists, contributed to produce the effect intended by the author—that of raising the voice of the reading-rabble against them. It would not be easy indeed to point out any eligible plan for annihilating such vermin, in a country so divided and extensive as Germany, without destroy-

ing altogether the liberty of the press.

Another evil which afflicted Germany, and excited the wrath of our author, at the period in question, was the mania of phyfiognomy, spread by the writings of Lavater. Lichtenberg, although he had no respect for that visionary writer, seems to have entertained ferious apprehensions as to the consequences of his speculations; and forgetting that a practical science, which rested on false soundations, would soon expose its own futility, he thought it his duty to denounce it as a dangerous and deteftable illusion. He accordingly published at Gottingen, in 1778, a pamphlet (inferted in the 3d vol. of this work), written with confiderable spirit and acrimony- 'Ueber Physiognomik wider die Phyliognomen, '-on phyliognomy, against the phyliognomists; which led him and others into a controversy of many volumes, and many years. His keenness on this trifling subject cannot be eafily comprehended by those who are strangers to the childish cupidity with which every thing new, or feemingly new, is grasped at in Germany, and to the universal interest which the immense population of that country takes in every learned controversy. Believing the foundation of physiognomy to be altogether ideal or false, he had no patience with those who built upon it. opinion of that science is always expressed in the language of contempt; but, in the following passage, he condescends to reafon upon it.

We have not a completely clear representation of the human face, and consequently cannot teach physiognomy. The rules contain no more than the reference of detached parts to the character. The countenance of a man who has cheated me, 1 know so well, and represent in so lively a manner, that I remark the slightest deviation in a face you. III. No. 6. A a

refembling his, as readily as if they were totally different, although I am not able to express, and still less able to paint, wherein the difference confists; and yet, from the greater or less resemblance which others bear to that man, am I ready to conclude with respect to their characters, because the idea of cheating is connected with the sensation which I have felt. A seature of the countenance will be affociated not so much with the character supposed to belong to itself, as with the action which it recals. I have always sound, that the persons who attached most credit to physiognomical observations, were men of little knowledge of the world: On the contrary, men of prosound experience pay least attention to the rules on which they are made, 2 &c. Vol. 11. p. 178.

He adds, in p. 181, When physiognomy arrives at the perfection expected by Lavater, we shall hang children before they have committed the crimes which deserve the gallows. There will, every year, be a physiognomical Auto da Fel-How provoking is it to perceive, that Lavater found more in the noses of some authors, than we can find in

their writings?'

The fatirist of Goettingen did not always confine his speculations to the trifles of the day. The system of education adopted by the greater part of his countrymen, both in schools and colleges, had fixed his ferious attention. He had witneffed fome changes, introduced in consequence of the light reflected upon that important subject by J. J. Rousseau and his followers in France. and by Feder of Erlangen, and Basedow of Hamburgh, in Germany. Of fome of these he seems to have approved; but to the greater part he applies that unsparing ridicule with which he always affails the pedantic affectation of originality, and the fenfeless love of change. Although fully aware of the advantages of a regular education, and acquainted with all that had been urged on both fides of the question, he never forgot that the fubstantial improvement of the character depends much less upon artificial instruction than is generally believed. The most careful education cannot create a fingle new faculty; and in a civilized age, no neglect can prevent the development of those that exist: their growth may be retarded by unfavourable circumstances, but their vigour may be more radically injured by excessive cultivation. Professor Lichtenberg never thought of declaiming against the use of what it was his business to enforce -an affiduous application to fludy. But he thought that his countrymen pushed the mechanical and coercive part of their fystem agreat deal too far; and, from our personal knowledge of some German seminaries, we do not hesitate to adopt the whole extent of his opinion. The most cultivated Germans, manuely the Saxons (a population of 8,000,000), benumb the fawalties, and diffort the perceptions of their youth, by a courfe

of premature study, before nature has attained the degree of vigour requisite for the development of her powers. The body, laid under restraint at the age of sour or sive years, suffers along with the mind. By the precision of bookish discipline, and the daily confinement of the faculties to the narrow limits of a school-house and a duodecimo, the course of infantine thought is impeded or perverted, in the same manner as tight bandages

injure the circulation of the blood.

I believe, 'fays Lichtenberg, p. 226. Vol. I. 'that if our pedagogues obtain their wish, I mean, if they once get the education of youth completely under their controul, we shall never more see a great man amongst us. God forbid that man, whose teacher is the whole circle of nature, should be regarded as a mere lump of wax, on which any professor may stamp at pleasure his own conceited image. The object of all education is to form virtuous, intelligent, and strong-bodied men: how we promote this object by our present course, I should find it difficult to comprehend. Teachers, in schools, and in universities, six the character, not of individuals, but of the nation; and this truth is almost always forgotten. I am so far an enemy to our incessant reading in early youth, that I would as soon insist on seeing a boy have a brandy-bottle, as a book continually in his hands. Children such their mothers for nourishment to their bodies, and, amongst us, their schoolmasters for food to their minds.'

Of the importance of a classical education, however, and of an intimate acquaintance with the writers of Greece and Rome, in their original tongues, Professor Lichtenberg entertained, through his whole life, the fame opinion. He regarded both the matter and the style of the ancient classics as alike admirable; but he thought that those studies were begun too early, and that it was principally from this cause that they were so often abandoned at a maturer period of life. To the vulgar objection, that too much time is lost in learning the words of the fentiments which we might obtain by means of translations, he gave the plain anfwer-That a man can never learn a language, without adding, to the stock of his ideas; and that the better the language is, (and where shall we find any equal to the Greek and Latin?) the more correct will be the judgment, and the more vigorous the perceptions of him who learns it. With regard to the learned tongues, they form at once, even confidered merely in their structure, the best code of laws for taste, and the best models for logical reasoning and argument. No man, indeed, who can read the classics, would exchange the fruit of the time spent upon them for any other attainment which his earlier years could have made. It is the respect which men of rank in England usually pay to a classical education, that drew from our author the following compliment, in which we heartily join in favour

of our Southern neighbours, and which is valuable, as coming from a man little accustomed to the complimentary style.

We ought to judge, in matters of education, rather from experience than from mere reasoning. We should inquire what nation has produced the most active, and the greatest men; not indeed the greatest number of compilers and of book makers, but of the most intrepid, the most acute, accomplished, and magnanimous characters? This is very probably the English nation. Vol. Fl. p. 194.

A confiderable proportion of M. Lichtenberg's miscellaneous remarks, refer to ethics and politics. He is by no means a zealous admirer of the Kantian philosophy, which has made so much noise in Germany, or of that political revolution which looks with so malign and ominous an afpect on all the European nations. His fentiments on these subjects we do not state at length, as they coincide, on the former, with those which we have expressed in our review of Villers's philosophy of Kant, and, on the latter, with those of almost every rational spectator of the last years of the last century. One of the reasons, however, which he assigns for the apparent attachment of some of its votaries to the tortuous and teazing philosophy in question, we cannot help noticing; and it will perhaps appear to our readers who have been in Germany, to be as just, as it certainly is mortifying, to common-place metaphyfical pride.

Many doctrines of Kant's philosophy are perhaps clearly understood by none; and each of his disciples, believing that another understands them better than himfelf, is either contented with an obscure conception of them, or perhaps fometimes affents from a perfualion " that others understand what he unfortunately wants capacity to comprehend."

Vol. II. p. 84.

To the perpetual refuge of the Kantians, that those who reject their philosophy do it from ignorance of its value and doctrines, it may be modestly opposed, (Siguidem philosophia, ut feritur, virtutis continet, et officii, et bene vivendi disciplinam,') * that what is adapted only to particular understandings, and unattainable, after years of study, by men of ordinary good sense in other respects, cannot be calculated for general utility, and must probably be superfluous, if not false. This is the doctrine inculcated by the celebrated Herder in his Metacritik, and by Professor Plattner of Leipsic, in his very respectable publications: And, indeed, were there no other presumption against Kant's innovations, but the circumstance of being uniformly opposed by the most enlightened men in Germany, who alone can be competent judges of a work which no man ventures to translate into other languages, and who consider it as a mere repetition of old, clumfy, metaphylical tricks; it would go far to determine against it every stranger to the German tongue, and every friend of rational and useful inquiry. Consistent with these sentiments is the following passage, which we give in the words of our rational and manly author, both as a specimen of his style, and a

proof of his opinion upon this subject.

'Ich glaube, das, so wie die Anhaenger des Herrn Kant ihren Gegnern immer vorwersen, sie Verstaenden ihn nicht, so auch Manche glauben, Herr Kant habe Recht, weil sie ihn verstehen. Seine Vorstellungsart ist neu, und weicht von der gewoehnlichen sehr ab, und wenn man nun auf einmal Einsicht in dieselbe erlaugt, so ist man auch sehr geneigt, sie für wahr zu halten, zumal da es so viele eisrige Anhaenger hat. Man sollte aber dabey immer bedenken, das dieses verstehen noch kein Grund ist, es selbst für wahr zu halten. Ich glaube, das die meisten ueber die Frende, ein sehr abstractes und dunkel abgesfastes system zu verstehen, zugleich geglaubt haben, es sey demonstrirt.' Vol. II. p. 37.

To gratify our German readers, we add another passage from our author's original, which is more likely to please other nations

than his own.

Es scheint, als werm der Fleiss auch sogar den Dichter bey den Deutschen machte und machen mueßte. Es ist, glaube ich eine gute Erinnerung für unsere Landsleute wenn sie auf Eminenz Anspruch machen wollen, sich Faecher zu wachlen, wo bloss Fleiss und Urtheilskraft den Werth des Werks ausmachen, und lieber da weg zu bleiben, wo ein Senskorn von Genie die vierzigjachrige Arbeit des studierten Nachahmers verdunkeln Kann. Das Fliegen muß man den Voegeln ueberlassen. Vol. II. p. 346.

We conclude our extracts from this agreeable writer, by a fentence which may probably make some of our countrymen blush, although we sear the persons alluded to are not among the number.

Die Englaender werden es durch Uebersetzung unserer Schriften dahin bringen, dass wir sie gar nicht mehr uebersetzen *. 2 Vol. I. 240.

The duty which would now lead us to point out the blemishes of the work under our review, is almost completely satisfied, by suggesting that this is a posthumous publication. The folly of this public exhibition of Mr Lichtenberg's whims, prejudices, and inconsistencies—of his attention to tristes, and of his vanity in committing to paper, as his own original thoughts, the ingenious speculations of others, with which either reading or conversation supplied him, is not to be laid to his charge. All the blame attaches to his editor. He himself never meant them to A a 3

^{*} The English translate so many of our works, that we cannot think theirs worth the translating.

fee the light. But the editor is to blame, not only for what he has done, but, we believe, also for what he has left undone. We fuspect that some of the author's most valuable lucubrations are altogether suppressed; for we find very little in these volumes to throw light upon the peculiarities of the German theatre and of the German romance. This is the more furprifing, as we have been informed by fome of his acquaintance, that he wrote much upon these subjects, and that his opinions of some living authors of eminence, founded on the justest appreciation of their characters and writings, were calculated, in a high degree, to amuse and instruct his readers. They have perhaps been suppressed, from delicacy to the feelings of these authors. To many of our countrymen, indeed, it will be a matter of indifference, that all which refers to German belles lettres should perish; and we are aware that much may be faid against a large proportion of the dramatic writings and novels of that country. But we cannot fee the reason of forgetting the ne quid nimis on that subject, more than on any other. The plays and romances which we borrow from the Germans, and we often borrow unikilfully, must furely possess some fubitantial excellences, or it is impossible that our artists should meet with encouragement to translate, imitate, and act them; and therefore, while we reprobate the morality of many of them, we lament the lofs of the learned and acute Lichtenberg's animadversions upon them and their authors. The hurry and carelessness with which the selection of these miscellaneous essays has been made, is by no means to be pardoned for the filly reasons which are offered in the prefaces to the first and second volumes. The honour of the dead should not be facrificed either for the profit or the vanity of the living. With all its imperfections, however, of incoherency, defultoriness, satirical bitterness and frivolity, this work will be often read with pleasure: and although its author is not entitled to take his place as a man of first-rate genius, or extraordinary learning, his character may be fairly fummed up in the words of the independent and magnanimous fage:

Hier feh ich laechelnd nun des Lebens bunte Scenen, Neumodische Virgils, altsraenkische Mœcœnaen, Gelehrte, die sehr oft sich selbsten nicht verstehn, Tartuffen, die voll Zorns die stille Tugend schmaehn, Kurz, Hochmuth, Hoffmung, Gleick, der Thoren ganzen Wahn,

Des Lebens ganze Mueh, seh ich gelassen an.

ART. IX. An Account of Native Africans in the Neighbourhood of Sierra Leone. To which is added, An Account of the Prefent State of Medicine among them. By Thomas Winterbottom, Physician to the Colony of Sierra Leone. Hatchard, Piccadilly. Vol. I.

Tr appears from the Preface of this book, that the original defign of Dr Winterbottom was to write only on the medical knowledge of the Africans in the neighbourhood of Sierra Leone; but as he had lived among them some time in quality of physician to the colony, and had made many observations on the genius and manners of the various African nations which furround it, it was thought fit (i. e. profitable) that he should write one volume for general, and one for therapeutic readers. The latter has not yet come to our hands. The former we have read with pleasure. It is very sensibly and agreeably drawn up; and the only circumstance we regret is, that, upon the whole, it must be rather considered as a compilation from previous writers, than as the refult of the author's experience: not that he is exactly on a footing with mere compilers; because every account which he quotes of scenes to which he is familiar, he fanctions by his authority; and, with the mass of borrowed. there is a certain portion of original matter. It appears also, that a brother of the author, in company with a Mr Watt, penetrated above 400 miles into a part of Africa totally unknown to Europeans: but there are very few observations quoted from the journal kept in this excursion; and the mention of it served for little more than to excite a curiofity which is not gratified by further communication.

By the neighbourhood of Sierra Leone, Mr Winterbottom means the windward coast, or that portion of the western shore of Africa which extends from the river Senegal to the latitude of nearly 5° north, where the coast quits its easterly direction and

runs away to the fouth, or a little to the east of fouth.

The whole of this coast is inhabited by a great number of independent nations, divided by different shades of barbarism, and disputed limits of territory, plunged in the darkest ignorance and superstition, and preyed upon by the homicide merchants of Europe. The most curious passage in this section of the work, is an extract which Mr Winterbottom has given us from a report made to a Committee of the House of Commons by the Directors of the Sierra Leone Company; and which (as we conjecture, from Dr Winterbottom's mode of expressing himself, it has never been printed) we shall extract from his book.

A remarkable proof, ' fay the Directors, ' exists in the neighbourhood of Sierra Leone, of the very great advantages of a permanent, though very imperfect fystem of government, and of the abolition of those African laws which make slavery the punishment of almost every Not more than feventy years ago, a fmall number of Mahomedans established themselves in a country about forty miles to the northward of Sierra Leone, called from them the Mandingo Country. As is the practice of the professors of that religion, they formed schools in which the Arabic language and the doctrines of Mahomet were taught; and the customs of Mahomedans, particularly that of not selling any of their own religion for flaves, were adopted; laws founded on the Koran were introduced; those practices which chiefly contribute to depopulate were eradicated; and, in spite of many intestine convulsions, a great comparative idea of civilization, unity, and fecurity, was introduced; population, in consequence, was rapidly increased; and the whole power of that part, of the country in which they are fettled has gradually fallen into their Those who have been taught in their schools, are succeeding to wealth and power in the neighbouring countries, and carry with them a confiderable portion of their religion and laws; other chiefs are adopting the names affumed by these Mahomedans, on account of the respect with which it is attended; and the religion of Islam seems to diffuse itself peaceably over the whole district in which the colony is situated carrying with it those advantages which seem ever to have attended its victory over African superstition.'

Agriculture, though in a rude infant state, is practifed all along this coast of Africa. All the lands must be strictly appropriated in a country, and the greater part cultivated, before any can be cultivated well. Where land is of little value, it is cheaper and better to till it flightly than perfectly; or rather, perfection, under fuch circumstances, consists in idleness and neglect. The great impediment to be removed from the fresh land which the Africans mean to cultivate, are those troublefome weeds called trees; which are first cut down, and then, with the grass, set fire to at a particular season of the year. This operation is performed when the Pleiades, the only stars they observe, are in a certain position with respect to the setting fun. At that feafon, the fires are feen rolling in every direction over the parched and inflammable herbage; and the blazing provinces are different at an immense distance in the night by ships approaching the coast. At this period of Arson, it is not tafe to travel without a tinder-box; for, if a traveller is furprised by the pursuit of the flame, his only fafety confifts in propagating the same evil before, by which he is menaced behind; and, in trudging on amid the fiery hyphen, multiplying destruction in order to avoid it. The Foolahs, who seem to have made the greatest advances in agriculture, are, however, still ignorant ignorant of the use of the plough, though Dr Winterbottom is quite persuaded they might easily be taught to use eattle for that

purpose.

There came, 'fays the Doctor, 'during my residence at the colony, a chief, of considerable importance, from the river Gambia, attracted by curiosity, and a desire of information. The man, whose appearance instantly announced a mind of no common cast, was so much struck with what he saw there, that, before he went away, he engaged in his service two of the most ingenious mechanics in the colony, one of whom, a carpenter, among other things, was to make a plough, and the other was to teach his people the art of training oxen for the draught, and fixing them to the yoke. For a further account of this person, see the Report of the Directors of the Sierra Leone Company. London, 1795.'

It is curious to remark, that where any instance of civilization and refinement is discovered in the manners of a barbarous people, it exists in a much higher degree than the same virtue in nations generally refined. There are many fingle points of barbarous courtefy much more rigidly adhered to than the rules of European politeness would require. We have often remarked this in the voyages of Captain Cooke, among the islands of the Indian Archipelago; and there is a very remarkable instance of it among the natives of this coast. The houses (says Dr Winterbottom) have feldom any other opening than the door, of which there are usually two opposite to each other. These serve the purpose of keeping up a current of air; they also admit the light; and afford an exit to the smoke of the fire, which is made in the middle of the floor. The entrance of a house is seldom closed by any thing but a mat, which is occasionally let down, and is a fufficient barrier against all intruders. The most intimate friend will not presume to lift the mat and enter, unless his falutation is returned. Nay, when the door is thus flightly closed, a woman, by pronouncing the word Mooradee, (I am busy), can prevent her husband from entering, even though he is affured the is entertaining her gallant. His only remedy is to wait for their coming out.

The explanation of these insulated pieces of superlative refinement among savages, frequently is, that they are not mere ceremonies, but religious observances; for the faith of barbarous people commonly regulates all the frivolous minutiæ of lise, as well as its important duties; indeed, generally considers the first as of greater consequence than the last. And it must be a general fact, at all times, that gross ignorance more tenaciously adheres to a custom once adopted, because it respects that custom as an ultimate rule, and does not discern cases of exception ception by appealing to any higher rule upon which the first is founded.

The Africans are very litigious; and display, in their law-suits or palavers, a most forensic exuberance of images, and loquacity of speech. Their criminal causes are frequently terminated by selling one of the parties into slavery; and the Christians are always ready to purchase either the plaintist or defendant, or both; together with all the witnesses, and any other human creature who is of a dusky colour, and worships the great idol Boo-Boo-Boo, with eleven heads.

No great division of labour can of course be expected in such a state of society. Every man is a city in himself, and is his own tailor, hairdresser, shoemaker, and every thing else. Among the Foolahs, however, some progress has been made in the division of employments. The tanner and the blacksmith are distinct trades; and the ingenuity which they evince in overcoming obstacles, by means to inadequate to those which Europeans posfefs, may convince us what a stock of good qualities human nature has in store for cases of emergency. They put to sea canoes of ten tons burthen, hollowed from a fingle tree; and although they are ignorant of the use of the potter's wheel, make earthen pots fit for every domestic use. Dr Winterbottom thinks they may have learnt their pottery from Europeans; but if this is true, it is rather fingular they were not instructed by the same masters in the use of the potter's most convenient and most prominent instrument. The common dress of the men consists in a shirt, trowsers, woollen cap or hat, which they buy of Europeans. Those who can afford it, are fond of decorating themselves in all the second-hand splendour they can purchase at the fame market; and Monmouth-Street embarks its decayed finery for the coast of Africa, where Soosoo rakes and loungers are joyfully vested in the habiliments of their Bond-Street predecessors. The dress of the Pagan African is never thought complete, unless a variety of gree-grees, or amulets, be superadded; these are to guard against every possible accident; but, as Dr Winterbottom observes, are such very cumbersome protectors, that in all real dangers they are commonly thrown away. The Mahomedan religion is inimical to dancing, finging, and all the lighter fpecies of amusement. Riding on horseback is the only exercise of those Africans who have adopted this dull faith. Sedentary amusements, such as reading and writing, which flatter the literary pride with which they are puffed up, are most congenial to their habits. The collation of manuscripts, which they perform with industry and accuracy, takes up much of their time. The Pagan African, on the contrary, is commonly a merry, dancing

dancing animal, given to every species of antic and apish amusement; and as he is unacquainted with the suture and promised delights of the Arabian prophet, he enjoys the bad music, and impersect beauty of this world, with a most eager and undisturbed relish.

There is fomething fo natural, and fo closely derived from human governments, in the notion of the immediate interference of Providence, that mankind are only weaned from it by centuries of contradiction and discussion In all cases, where crime is alleged, the accused is obliged to prove his innocence, by submitting to an ordeal. If he is burnt by red-hot iron, or scalded by boiling oil, he is immediately hurried to the gallows, with a zeal proportioned to the force and perspicuity of the evidence. In the neighbourhood of Sierra Leone, a curious species of pharmaceutical tyranny is reforted to for the purpose of ordeal. The bark of a particular tree, of purgative and emetic qualities, is infused into a large quantity of water, of which the prisoner is to drink about fix calibathes quite full. If this judicial and inquisitive drink take a superior direction, and return by the aperture through which it is admitted, all is well; but if the least honourable and elegant of its powers predominate over the other, and it evince a disposition to descend, all opportunity of changing its line of egress is prevented, by the immediate elevation of the accused person to the gibbet.

The defire of penetrating into futurity, and the belief that fome persons are capable of doing it, is as disficult to eradicate from the human mind, as is the belief in an immediate Providence; and confequently, the Africans not only have their ordeal, but their conjurers and magicians, who are appealed to in all the difficulties and uncertainties of life, and who always, of course, preserve their authority, though they are perpetually showing, by the clearest evidence of facts, upon what fort of foundation it refts. But the most singular circumstance in the history of barbarians, is, that tendency to form interior focieties, comprehending a vaft number of members, and rivalling the government in their influence upon public opinion. Such is the Areoy Society at Otaheite, and fuch the Society of the Purra in Africa. Every person, on entering into this Society, lays aside his former name, and takes a new one. They have a superior, whose commands are received with the most profound veneration. When the Purra comes into a town, which is always at night, it is accompanied with the most horrid screams, howlings, and every kind of awful noise. The inhabitants who are not members. are obliged to secure themselves within doors. Should any one be discovered without, or peeping to see what was going forwards, he would infallibly be put to death. Mere feclusion of females is not considered by the Society as a sufficient guarantee against their curiosity; but all the time the Purra remains in town, the women are obliged to clap their hands, to shew they are not attempting any private induspence of epiponage. Like the Secret Tribunal which formerly existed in Germany, it punishes the guilty and disobedient, in so secret a manner, that the perpetrators are never known, and, from the dread of the Tribunal, not often inquired for.—The natives about Sierra Leone speak of the Purra men with horror, and firmly believe that they have all strict and incessant intercourse with the devil.

This account of Africa is terminated by a fingle chapter on Sierra Leone; a subject on which we cannot help regretting that Dr Winterbottom has not been a little more diffuse: It would derive a peculiar interest from the present state of St Domingo, as the perils with which West India property is now threatened, must naturally augment curiosity respecting the possibility of a pacific change of that fystem; and we should have read with pleasure and instruction, the observations of so intelligent and entertaining a writer as Dr Winterbottom, who is extensively acquainted with the subjects on which he writes, and has a talent of felecting important matter, and adorning it. Dr Winterbottom fays he has been in Africa some years, and we do not doubt the fact; he might, however, have written this book without giving himself that trouble; and the only difference between him and a mere compiler is, that he fanctions his quotations by authority, and embellishes them by his ingenuity. The medical volume we have not yet seen, but this first volume may be safely purchased.

ART. X. The Second Part of the History of the Anglo-Saxons from the Death of Eghert to the Norman Conquest. In Two Volumes. By Sh. Turner, F. A. S. Cadell & Davies.

MR GIBBON has justly observed, that the Anglo-Saxon period of the English history ' is familiar to the most illiterate, and obscure to the most learned reader.' Gildas, whom the historian of the Roman Empire styles, with ambiguous compliment, ' the British Jasemiah,' is so pleased to find, or so determined to invent, topics for declamatory lamentation or praise, that it is difficult to distinguish the basis of truth from the fantastic superstructure of exaggeration and falsehood with which he has overloaded it. We example, at this distance of time, decide what parts of the history were written by himself, and what were added or altered

altered by his friend Samuel, and it is of little consequence that we should; for there seems to be nothing to be divided between them, but an abundance of the most contemptible and absurd The Saxon Chronicle presents merely a muster-roll of names, and a chronological table of events. The venerable Bede has indulged his fondness, or exercised his talent for miraculous tales so freely and frequently, that his learning and judgment, which were certainly great, have feldom room for any beneficial display. These are the principal authors who have been consulted by the English historians. The industry and patience of refearch necessary to collect a few imperfect and thinly-scattered notices; the constant watchfulness and discrimination requisite to guard against falsehood and to detect it; and the confusion and perplexity arising from accounts frequently varying, and sometimes contradictory, have tempted many to prefer the guidance of fancy to that of fober investigation, and to indulge in conjecture, where they ought to have commented upon evidence.

The events of that period of the history of the Saxons which preceded their invasion of England, form no direct and necessary part of our national transactions: they have, accordingly, been either entirely overlooked, or very imperfectly treated, by our most accurate and industrious writers. Every thing, however, which relates to those tribes, from whom we derive our 'name, our laws, and perhaps our origin,' must be the object of laudable This curiofity, the first part of Mr Turner's history is intended, and, in a confiderable degree, calculated, to gratify. it he has brought forward all the information which multifarious reading could supply, respecting the origin, the first settlements, and the continental transactions of our Saxon ancestors. history of the Britons during the zera immediately preceding the Saxon invalion, is also related with sufficient fulness and accu-In order to exhibit a more clear and interesting view of his fubject, Mr Turner has occasionally introduced a sketch o the contemporary history of Europe; particularly of those powers which, by their hostility or alliance, influenced the affairs of Eng-In the preface to the first volume, we are informed, thatafter having brought down the Anglo-Saxon history to the Norman Conquest, 'it is the intention of the author to review their laws, manners, government, literature, and religion.'

As the first volume of Mr Turner's history is not now immediately under review, we shall notice merely a few of the most important points, in which we think he has been negligent, mistaken, or credulous. He has certainly dislipated his diligence and learning very unprofitably in endeavouring to trace the first motice of the Saxons, and to ascertain the etymology of their

mame.

name. These points are of so little real importance, and moreover, lye so far beyond the reach of probable conjecture, that no person, possessed of a judgement superior to his love of the parade of learning, would have fuffered them to occupy so many pages of his work. When our author coincides with Mr Gibbon, in preferring the decifive and more probable account of Nennius, respecting the cause of the Saxon invasion, we know not whether to applicate his judgement, or to suspect his partia-His admiration of Gibbon is so manifest, habitual, and confrantly active, that we have more than once found him the echo of his fentiments, and the transcriber of his words. Mr Turner does not stop to inquire, whether three chiules could possibly contain a thousand men, the smallest number crowded into them by historians: * to us, it appears incredible. The keel and lower works alone of these long vessels were of timber: the sides and upperworks were of wicker covered with hides. It is evident that ships formed of these materials could have been neither very large, nor capable of enduring the stress of any great burthen. The vast number of these vessels, which often formed one sleet, also renders it probable that they could accommodate but few: we are informed by Mallet, that fleets of three hundred fail were not uncommon; and that Harold Bluatand King of Denmark, and Count Hacon, commanded a fleet of feven hundred. Even in the eleventh and twelfth centuries, the ships of the Norwegian Princes were capable of holding only a hundred or a hundred and twenty men. + Our author states from Nennius, that about 453 A. D. a fleet of forty chiules, under Octa and Abifa, went to the north of the island. We admire his penetration, in having discovered this to be the meaning of the passage of Nennius to which he refers, and still more his credulity, if he believed the statement which he thought it contained. Mr Pinkerton has clearly shewn it to be one of the unintelligible fables of Samuel or Nennius. 1

The chapters on the Welsh Bards and King Arthur are amusing and ingenious; but discover a degree of credulity, carelessness, or partiality, that is not to be tolerated in an historian who afpires to the considence of his readers. We shall not go out of our way to examine, circumstantially, the evidence for the genuineness

1 Pinkerton's Inquiry, II. 286-290.

^{*} Oth old writers are entirely filent about the number of men. Mallet fays 1000; Hume 1600; Rapin 3000; and Verstegan 9000.

⁺ See the authorities in Mallet, I. 258. It appears by an Icelandic faga, quoted by Mr Turner, II. 26, that the Norwegian ships, in the sighth century, generally held 60 or 70 well-armed men.

nuineness of the poems attributed to the Welsh Bards, and the consequent authenticity of the accounts which they contain of King Arthur. We shall confine ourselves to a few remarks suggested by Mr Turner's own affertions, in which it requires no

great learning to discover contradictions.

Taliessen flourished about 560 A.D., and it appears, Mr Turner informs us, from one of his poems, that he was bard to the King of Lochlin or Scandinavia. We have three reasons for doubting the truth of this allegation. 1. Scandinavia was not called Lochlin till the ninth century. 2. There never was a King of Scandinavia: Norway, a very small part, was divided among at least twenty monarchs, till the ninth century. 3. Talieslin, a Celtic bard of Wales, cannot be conceived to have been in the fervice of a Gothic King in Scandinavia, a country fo distant, at that time unconnected, and probably unknown !- Myrzin, another Celtic bard, was a Caledonian.—Aneurin informs us, that in the fecond battle at Cattereth (about 570 A. D.) Mynnyzwag of Edinburgh commanded the united Britons. No other account mentions the existence of Edinburgh till a century afterwards. Where the ground for fuspicion is so advantageous and tenable. no historian, who is anxious for his reputation, or attached to truth, should admit such evidence, however strong a temptation preconceived opinions, or the meagreness of authentic testimony, might present.

We shall now proceed to that part of Mr Turner's history, which is immediately under review. It may be proper to let him describe in his own words, his plan and arrangement.

On comparing the documents of the nations on the Baltic with our own, the author was struck with the resulting fact, that the great Danish invasion, by which Alfred and his brother were so afflicted, was not a casual depredation, but a deliberate attack to revenge the death of the celebrated Ragnar Lodbrog. This circumstance, which gave system and meaning to what appeared before to be incoherent and unconnected, occasioned further researches: and it at last became apparent, that the inattention of our writers to the northern documents, had filled their histories with obscurity and mistake. The connexion between our history, and that of the northern nations, was so intimate and incessant, that it appeared impossible to study the English annals, from Egbert to William the Conqueror, with any precision or intelligence, unless the northern niterature was consulted and applied. (Preface.)

In the fecond volume, there are fome very curious and interetting

^{*} Verstegan, however, had, long before our author, impertectly discovered the real cause of this Danish invasion. Restit. Decayed Intell. 173.

esting chapters. We would particularly recommend those which describe the Sea-Knip, or Vikingr of the North; the expeditions of Ragnar Lodbrog, and the public and private actions of Alfred, as exhibiting a wide range of refearch, and containing information that will be attractive to all, and new to most read-Mr Turner, however, deserves severe reprehension for the vitiated tafte, which has led him to conceal and disfigure the interesting simplicity of Affer's narrative, with the cumbrous and tawdry decorations of his own ill-regulated fancy: in fome instances, he has evidently difguised or overshadowed the truth, because it opposed his predilection for romance and inflated dic-As Mr Turner has thought proper to enter so fully into the merits of Rudbeck's system, he ought to have made himself acquainted with a very learned and ingenious tract, published by Rudbeck the fon. ('Atlantica Illustrata,' Upsal 1733). The author, imagining that the hundred arguments advanced by his father, in support of the identity of the Atlantis of Plato and Sweden, were desective either in number or power, has brought forward many others, of which we shall notice one, as it supplies a probable etymology of a word, which has exercised the learning and fagacity of Hickes. Allodial is derived by Rudbeck from adel, nobilis, immunis; and lod, terra fructus. ter having traced adel through almost every known language, and found it in the alexers modifies of Aristotle, and in Attalus, Atila, and Atlas; he concludes, 'Ex omnibus itaque vocabulis, jam allatis, pronum est concludere nostratem Atlandiam seu Atlanticam, per syncopen ex Ateland vel Adeland, nomen esse sortitam.' Mr Turner asks, does not the word Bergbuar (the name of one of the gigantic tribes of Torfæus), present us with the origin of our bug-bear? We think the etymology from the Welch bug, fear, much more probable.

The æra and the very existence of Odin, have been the subject of debate and scepticism. Ihre informs us, that some of the Swedish historians record three of that name. The first, who is said to have sounded the Scandinavian kingdoms, called Odin the Old (Odin-hin-gamle). This he supposes to have been the true God, worshipped under that name. Odin the Second is mentioned only by Saxo-Grammaticus, who styles him Mithothys; whence, and from the silence of all other Scandinavian writers respecting him, Ihre suspects that Saxo mistook the appellative of Odin the Old, Metod the creator, for the proper name of a different being. The Icelandic historians six the third Odin in the time of Pompey, from whose arms, they say, he seed into Germany and Sweden. Rudbeck the son entertains

an opinion, in which we believe he is fingular, that Odin the Second conducted the Fins and Laplanders, about the time of Salmanassar (before Christ 714), from Media and Persia into Scandinavia +. Mallet supposes, that some man of enterprising genius came from Scythia, and introduced the religion of the God Odin, and that the ignorance of fucceeding ages confounded the deity with his priest 1. Mr Gibbon, in the last volume of his history, takes an opportunity of declaring, ' that he has forgotten, or renounced, the flight of Odin from Azoph to Sweden, which he never very feriously believed | . . But it was reserved for Mr Pinkerton to discover the grand secret, which he reveals with his accustomed supercilious dogmatism, that Odin never existed &. There is every probability, which we can expect in a subject so remote and obscure, that the Scandinavians originally came from that part of Asia, whence Odin is said to have emigrated ¶. It is also extremely likely, that the leader of this emigration would be honoured as a god, and receive the name, as he had performed the actions of the God of War *. The opinion of Rudbeck, is not only fingular, but contradicted by many circumstances. There is no evidence that the Fins or Laplanders came from Asia; the common opinion is more probable, that they were the original inhabitants. Odin is not one of the gods of the Laplanders, who, from their remote and infulated situation, have preserved their ancient religion almost unmixed even with the superstitions which half-converted nations have framed out of Christianity +. The emigration of Odin, must have taken place at a period long anterior to the time VOL. 111. NO. 6.

⁺ Atlant. Illust. 45.

[‡] Mallet, I. 68.

^{||} Gibbon, XII. 406.

[§] Pinkerton's differt. 181. O cæcas hominum mentes! Oh pectora cæca! Here is the secret: Odin never existed. The whole affair is an allegory.

The flight of Odin is threnously embraced by Warton, and applied with confiderable ingenuity, though with doubtful fuccess, to account for the prevalence of romantic fiction in the ancient Scandinavian nations. Differt, 1, prefixed to Hill, of English Poetry.

^{*} Ihre supposes Odin, or Woden, to be derived from wedan, insanire Anglo Sax.; or the Gothic vods, demoniacus. Keysler informs us, that Odin was called Walfader, the father of slaughter; Waltodur, the sather of arms; and Sigmundur, the giver of victory. Keysler, Antiquit. Septen. 133.

[†] Leemius de Lappon. chap. 19. 20. 21. 22.; and Erich Joannes Jeffen de Finnorum, Lapponumque Norwegicorum, religione pagana. (This Tract is appended to Leems).

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of Pompey. In his time, it would have been impossible for the most warlike and powerful army to have pierced through the innumerable nations which lay between the Euxine and Scandinavia. The particular conjecture that they fled from Pompey, is also highly improbable. The Roman general pursued Mithridates to Colchis, but advanced no farther; after continuing there a very short time, he marched into Armenia. We cannot therefore suppose, that an army unseen, and almost unheard of, would have driven Odin and his followers so far from their native country, and into a climate so unsuitable to their habits and feelings.

Mr Turner is inclined to place Odin between 270 and 280 A. D. He founds this opinion on the genealogies in the Saxon. Chronicle; where Cerdic, in 495 A. D., is reckoned the ninth descendant from Odin; Ida, in 547, the tenth; and Ella, in e60, the eleventh. From the near coincidence in date of this supposed existence of Odin and the expedition of the Francs. from the Euxine Sea, 277 A. D., he thinks it not improbable that Odin was the leader of the Francs in that great expedition. But there are strong objections to this mode of fixing the zera of Odin. The genealogies in the Saxon Chronicle ought not to be trusted: the authors of it make a point of tracing all their distinguished personages to Odin: it is the refuge of ignorance, the fiction of pride, or the policy of superstition and tyranny. Hengist and Horsa, according to them, were the fourth from Odin: if we reckon, with our author, twenty-five years to a generation, there will be exactly a space of a hundred years between these Saxon chiefs and their great progenitor: they lived A. D. 440; he, of course, 340,—seventy years at least before the æra which is indicated by the other genealogies. It is very improbable that the history of one who had lived only a hundred years before, would have become so obscure and mixed with fables, or that he would have been worshipped as their supreme deity. We are as little disposed to coincide with Mr Turner in the opinion that Odin was the leader of the Francs: the Scandinavian nations would not have claimed as their ancestor, or received into the number of their gods, the leader of a foreign band: the Francs, it may also be observed. after having ravaged the coasts of Asia, Greece, and Africa, landed on the Frifian or Batavian shores, where it does not appear that Odin was ever the object of veneration. Our author is mistaken in saying that Gregory of Tours, 573 A.D., is the oldest writer extant who mentions the Danes (II. 54.): they are mentioned by Jornandes 530, and by Procopius 560.

The three last chapters of the second volume are devoted to the delineation of Alfred's intellectual and moral character, and to the examination of his public conduct. These chapters have rather disappointed us: instead of condensing the scatte ad traits of our older historians into a distinct and characteristic portrait, Mr Turner enters into a minute and tedious detail, which leaves no distinct and individual impression on the mind. A determination to enlarge his volume, or to display his learning, has led him not only to translate the voyages of Ohthere and Wulfstan, but also to favour his readers with the original Anglo-Saxon. We shall not dispute his ability to translate directly from this language, especially as he informs us that he has collated the text of Mr Barrington's edition with a manuscript, and that his translation differs in some places from that gentleman's; but we may be allowed to smile, when he attempts the conjectural emendation of the Saxon text. The following passage is certainly obscure and perplexing; and we shall not attempt to explain or correct it: 'Thara he fæde that he fyxa fum ofsloge fyxta on twam dagum.' Mr Turner supposes that syxa is an error in the MS., and should be fyxa, and translates it, ' There he faid that, of some fish, he slew fixty in two days.' From this translation, it appears that he considers fyxa as the genitive plural: how, then, can fum, which occurs only in the nominative fingular, agree with it? If fum be the genuine reading, then fyxa must be the nominative singular; in which case, his translation is incorrect, and his proposed reading contrary to sense and the rules of grammar. *

In the reign of Athelstan was fought the battle of Brunanburgh. It would be dissicult to name a battle, during the Saxon heptarchy, which tended so much as this to raise the dignity and strengthen the influence of the English nation among the Continental powers. As its position is not ascertained by Mr Turner, or any other B b 2 writer.

^{*} The context also shews, that Ohthere is speaking exclusively of whales. In his own country, he says, they are taken easily, and in great numbers. As an instance, he adds the sentence which Mr Turner has attempted to correct. In Bussaus's edition of Ohthere, (published along with Arius Frode, Havniæ 1733), which, we believe, is the same as Spelman's, it is rendered, 'Dixit se sextum suisse, qui sexaginta bidui spatio interfecerit.' (11.) Adelung, in his Essay on the English Language, translates it, 'Er versicherte, dass er selb sechste (d. i. mit noch suinsen) ihrer in zwey Tagen sechzig erleget habe.' 'He said that he was the sixth of those (i. c. along with five others) who slew sixty in two days.' But the Anglo-Saxon will not bear either of these translations, especially if sum, which is entirely omitted by Bussaus and Adelung, be a part of the genuine text.

writer, we may be allowed to indulge a little in antiquarian conjecture, not with the expectation of fixing it exactly, but only to shew that the opinions witch have been hitherto advanced .. e all contradicted by undifputed and direct evidence, and to circumfcribe the limits within which conjecture must hereafter range, and investigation be directed. Cambden thought it was Ford, near Bromeridge, in Northumberland. Gibson mentions, that in Chethire there is a place called Brunburgh. Mr Turner has found, in the Villare, Brunton in Northumberland, which he suspects to have been the place. All these conjectures are founded on the supposition that the place still retains some resemblance to its ancient name. Hence, antiquarians have been led aftray from the proper object of inquiry. None of these places, however similar in name, can possibly have been the scene of action. They are all at a considerable distance from the fea; whereas, we are told expressly by the Saxon Chronicle, and Florence of Worcester, that the Northmen and Scots fled to their ships. * In the Polychronicon of Ralph of Higden. Anlaf and Constantine are said to have entered the Humber with a fleet; + and Fordun informs us that they invaded the fouthern parts of the kingdom, and laid waste all the country, till they reached the place where Althelstan was encamped. I If we connect these accounts, we shall be led to conclude that the battle was fought near the Humber, on the Lincolnshire side. Ingulph, indeed, expressly fays, that the place was to the north of the Humber, (in Northanhumbria 6); but it is by no means probable that the invading armies, after having failed fo far fouth, would direct their march to the northern and less important part of the kingdom, or that Athelstan would be so imprudent as to leave exposed the southern district, by collecting his force on the north fide of the river.

The 3d and 4th chapters of the 2d volume, contain a furvey of those states on the Continent with which Athelstan was connected,—Bretagne, France, Germany, Norway, and Normandy. These chapters, particularly the first, which treats of Armorica, the favourite abode, if not the birth-place of Romance, will have the attraction of novelty to most readers; and even those who have perused the several works from which the account is drawn, will

^{*} Gibion's Saxon Chron. 113. Floren. Vignor. Chron. 348.

[†] Polychron. Ranulph. Higden. 262. apud Gale, I. † Fordun, 672. apud Gale, I.

⁶ Ingulfi Histor. 37. apud Fell. I. In the Saga of Egill Skallagring. Se battle is said to have been sought at Vinheida; apud Johnston. Celto-Scan. 37.

will acknowledge that Mr Turner has given a connexion and completeness to his narrative, not easily attainable where the materials are so scanty, the details so inaccurate and incomplete. and the authorities, in general, so indirect and suspicious. In one point, however, Mr Turner is certainly mistaken. He affirms. that the people of Vannes in Bretagne conquered the Venetian territory; and he even fixes the date of the conquest A. U. C. 164. We know of no authority for the date; and the truth of the event itself is very suspicious. Polybius says, that the Venetians differed from the other Cifalpine Gauls in their language, and conjectures that they came from Paphlagonia, where, according to Homer, there was a nation called Veneti. * Strabo thinks that the people of Vannes in Bretagne may have given name to the Venetian territory; but, at the same time, expressly days, that he is not confirmed in his opinion; and mentions feveral other suppositions, all resting merely on a similarity of name. + Cato ascribed a Trojan origin to the Venetians. I Cæfar particularly notices the maritime power of the people of Vannes; but he is entirely filent on this point. Mr Turner, in making this unfounded affertion, appears to have trusted implicitly to Lobineau; but he ought to have been roused to suspicion, and incited to inquiry, where national partiality, and especially Celtic partiality, was concerned. It is not often, however, that Lobineau is mistaken or partial in his Histoire de Bretagne; which Mr Turner has judiciously chosen for his direct and leading authority. There is in that work a more con-Itant and close union of laborious research, luminous arrangement, and discriminating knowledge, than the writings of antiquarians generally exhibit.

Mr Turner proves that tournaments were first regulated, if not invented, by Henry the Fowler; and thus fixes their existence a century before the date affigned them by Du Freine and St Palaye. || We know not whether our author be acquainted Bbз with

+ Strabo, IV. 195. V. 212 .- Eustathii Scholia in Dionys. Perier.

vers. 380.

^{*} Polybius, II. 48.—Homer's Iliad, B. 852.—Nepos Cornelius. apud Plinii Nat. Hift. VI. c. 2 .- Livy, I. c. 1.

[‡] Cato, apud Plin. III. c. 19. This question is discussed with much learning, but evidently with much partiality, by Lorenzo Pignoria, Le Origini di Padova, cap. V. p. 30-33.

S Gæsar, Bell. Gall. 111. 50. Edit. Plant.

Du Fresne Gloss. Latin. IV. 398.—St Palaye, I. 182.—Tournaments, however, appear to have been familiar in the East, long before they were known in Europe .- Richardson's Disfert. on the Manners. &c. of the Eastern Nations, 198.

with the authority on which Pinkerton traces them to the Moors, in the eighth century; but if he be, we think him justified in rejecting it. * The 'Historia Verdadera' is generally considered by the learned in Spain neither to be ancient, nor to have been written originally in Arabic. There are many internal marks that it is the comparatively modern production of a Spaniard. †

Our author has dispelled the mist of fable which hung round the character of the famous Rollo, by confulting the fober and impartial narrative of Snorro; but he might have rendered his information more authentic and complete, if he had perused the differtation on Rollo in the 2d volume of Torsæus's History of Norway. The life and character of Dunstan, the tyrannical bigot of Edwin's reign, are introduced by an account of the origin, progress, and institutions of the Benedictine order, into which he entered, and thus fanclified and affifted the projects of his ambition. Our author has derived confiderable information from a MS. life of this prelate, preserved in the Cotton Library, written by one apparently his contemporary. In it is the simple and natural truth of that circumstance, which has been converted, by pious fraud, or enthusiastic credulity, into a ridiculous miracle. (135.) The 13th Chapter contains a view of the last state of Northern piracy. In the ninth century, it was an established contom in the North, that all the sons of kings, except the oldest, should be furnished with ships properly equipped, in order to carry on the dangerous, but not dishonourable profesfion of piracy.

'So reputable was the pursuit, that parents were even anxious to compel their children into the dangerous and malevolent occupation. By an extraordinary enthusiasm for it, they would not suffer their children to inherit the wealth which they had gained by it. It was their practice to command their gold, silver, and other property to be buried with them. Inherited property was despited; that affluence only was esteemed, which danger had endeared. '(II. c. 11.)

When commerce and agriculture became more followed and efteemed, the profession of piracy lost many of its followers, and some of its honour; but the glory which custom had attached to it might still have rendered them powerful, and secured them from destruction, if they had not neglected the disinterested maxims of their ancestors, and regarded their plunder rather as the object of avarice, than the proof of valour. ‡ Mr Turner enters

^{*} Pickerton's Scotish Poems, 11. 439. Note.

[†] We perceive that Mr Turner, in his first volume, refers to the authority of this suppositions work of Abulcazim.

iracy feems to have been equally honourable, but not purfued with inthusiafin equally difinterested by many of the ancient maritime. Thueyd. I. § 5. and Hudson in loc.

enters very fully into the discussion of a much disputed point,—whether Edward the Confessor sent Harold to William of Normandy, in order to appoint him his heir, or whether Harold went on other business, and was himself the legal successor of Edward. Too much stress is laid on the Tapestry of Bayeux. It is certainly a valuable document for the historian, and we are surprised that it should so long have been regarded only as an object of antiquarian curiosity. Its evidence, however, ought to be suspected of partiality. It may be used to illustrate, but it ought not to be allowed to set aside, the testimony of positive and

concurring documents.

Every page of Mr Turner's history manifests his extensive research, and minute investigation. It would be disficult to point out many authors that have treated expressly or incidentally on the subject of his work, whom he has not carefully consulted, and accurately quoted. * But he has been more anxious that his authorities should be numerous, than select. His ignorance or his vanity has led him to swell his lift with names of doubtful reputation for learning and accuracy. There is very little difcrimination displayed. Authors are referred to for important facts, who, from the recentness of the time in which they lived, ought to have been confulted folely for their opinions, not for their testimony. An acquaintance with the Gothic dialects, both ancient and modern, more extensive, and less dependent on the Latin version, than what he seems to have possessed, would have corrected some mistakes, supplied some deficiencies, and procured for his history more confidence and respect.

Bb4 We

^{*} We shall mention some works which may be of use to Mr Turner, in correcting mistakes, and supplying deficiencies, if his history should come to a second edition; or which will enable him to illustrate, in his concluding part, the laws, &c. of the Saxons.—H. Meibomii ad Saxonize inferioris inprimis historiam introductio, Helmest. 1687, 4to.—This was followed, in 1688, by Meibomii Rerum Germanicarum Scriptores, 3 vol. Fol.; the 3d vol. contains the Saxon annals of Witichind, and some curious information respecting the early history of the Saxons.-Ritratti Historici, &c. dell Casa serenissima di Sassonia, di G. Leti, 4to, 1688 .-Pauli Hachenbergi Germania Media, 1676, Heidel, et Edit. 2da, 1687, This work contains twelve diffinct and elaborate differtations on the government of the ancient Germans, the distinction of ranks, their laws, their mode of warfare, their marriages, their literature, their language, their religion, their fiels, their money, their drefs and customs, and their funeral rites .- Sprengel's Geschichte von Großbrittanien .-Schlætzer's Allgemeine nordische Geschichte. - Mæser's Osnabrueckische Ceschichte.

We cannot award Mr Turner any higher praise, than that which is due to diligent and careful research. His arrangement is not neat, methodical, or luminous. The narrative is often broken off where it is highly interesting, in order to introduce what might have been either entirely omitted, or deserred without any detriment. Particular care, however, ought to have been taken in the arrangement of a history, which embraces the transactions of a number of states, in order to preserve, at the same time, the connexion of all, and the individuality of each. The work is loaded with reslections, which the author no doubt considered as original, appropriate, and prosound: Most readers, we imagine, will pronounce them trite and obvious, and be strongly reminded, by the awkward manner in which they are soisted in, of what used to be the application of a sermon, in days of less taste and more orthodoxy. One specimen shall suffice.

For feven years, Athelitan, in a cooler moment, mourned the death of Edwin, with a penitence which, from earthly memory, could not obliterate the crime, much less atone for it. Of all human crimes, murder is the most irreparable. The dead never leave their house of gloom. Consciousness, once sted, revisits the mortal tenement no more. He, therefore, who is sent suddenly to his account, with all his impersections on his head, receives an injury which man cannot compensate. But this is a subject, around which every thing that is awful and mysterious assembles. Fancy must not presume to obtrude; hope only can be chartered to muse upon it with humble aspiration.

(111. 105.)

Such common-place sentiment, delivered in a style so ludicrously pompous and instated, would have disgraced even a funeral oration. It is an unequivocal proof of a seeble mind,

and a vitiated taste.

Our author is very unfortunate in his attempts to delineate the characters of the Saxon kings. A combination of talents, indeed, that are but feldom to be found united, is requisite to ensure success in this most delicate part of the historian's office. He only who is acquainted with the most secret and delicate springs of human action, whose acuteness and comprehension can detect and combine those qualities which are peculiar and characteristic, can present a strongly marked and highly sinished likeness. Mr Turner's attempts possess one recommendation: they will suit equally well for many different personages; they are pograits to be let.

Mr Turner evidently intends that his style should resemble that of Gibbon. 'Verum facilius Herculi clavum, quam Homero versum surripere.' Not that we are very violently enamoured style of Gibbon: it is the style of a mind, more anxious

to dazzle than to enlighten; which substitutes harshness and inversion for energy; periphrastic obscurity, for varied elegance; and which thinks itself profound, when its meaning perplexes or escapes the reader, from the imperfection or ambiguity of the expression: But it is also the style of a mind habituated to reflection; comprehensive, and often original in its views; of an imagination luxuriant, not so much perhaps from nature, as from care and cultivation; and it discovers a command of that language, which is completely unmanageable in the hands of one who has nowbeen fo richly gifted by nature, nor fo carefully exercised in study. The defects of Mr Gibbon's style are easily copied, and the copy generally surpasses the original. Mr Turner has produced the most highly finished caricature of this style that we have ever feen; and views, with felf-complacency and admiration, what in others would provoke ridicule, or create difgust. Like Mr Gibbon, he 'flings half an image on the straining eye. ' He has scarcely started a metaphor, before he deserts it, and pursues another; and thus, frequently, in one sentence. that imperfection and confusion of imagery are produced, which bewilder the understanding, and offend the taste. The most palpable and peculiar faults in the style of the historian of the Roman Empire, are happily imitated in the following fentences.

'The foldiers of Anlaf fled on every fide; and the death of purfuit filled the plain with bodies.' (111. 34.) 'He was twice a candidate for that endearing felicity, which the connubial union never fails to reciprocate between amiable hearts and well-instructed minds.' (15.) 'He died in 899; and his young fon, Louis, disappeared from human greatness in 912.' (73.)

These, however, are trivial faults, compared with those which dissigner the greater part of the first volume, and even many passages of the second and third. The well-known line of the poet presents us with so just and striking a character of Mr Turner's general style, that, to save ourselves trouble, and not to afflict our readers with any longer specimens, we shall

borrow it to express our opinion,—

It is not poetry, but profe run mad.

Even in diction, however, though there is much to blame, there is something to praise. In his description of battles, particularly of those at Brunanburgh (III. 30.), Scearstan (261.), and Assandun (264), he discovers more energy of thought, and a more skilful command of simple but expressive language, than in any other parts of his work: he is particular, without being consused; and minute, without being tedious: his ideas, on these occasions, appear to have been so rapid and impressive, that they could

could not endure that deliberation, which has evidently rendered his language obscure and inflated in the more elaborate parts of his work.

The grand fource of Mr Turner's impersections, seems to have been his constant and laborious endeavours to imitate Gibbon. He would have succeeded much better, if he had contented himself with the humbler task of collecting and exhibiting, in a plain and unaffected style, the materials of his history. His attempts to unite the accomplishments of a fine writer, with the merits of an accurate compiler, were presumptuous, and have completely failed: they are characters, indeed, which we seldom find united, except in the dubious instance of Gibbon. It, perhaps, is no great disgrace to have sailed, where so few have succeeded; but it certainly would have been more prudent and more honourable, not to have made the attempt. We would advise him not to renew it, where there is still less probability of his success, in his promised review of the learning, laws, manners, government and religion of the Saxons.

THE name of Dr Geddes is probably known to most of our readers; and to those who are acquainted with the literary labours of this enterprising and industrious scholar, a biographical sketch must be interesting: yet even his admirers will perhaps agree with us in opinion, that the bulk of the present publication appears to be disproportionate to the necessity, if not to the importance of the occasion. In this prepossession they cannot fail to be confirmed on a more careful examination of the volume, which owes its excessive bulk, not fo much to the prolixity or minuteness of the narrative given by Mr Good, as to the introduction of long extracts and analyses of the printed works of Dr Geddes. When the writings of an author have become extremely rare, or from their fugitive nature are likely to become fo, a biographical compiler may deserve the thanks of the curious, for this mode of republication; and when these throw any direct or important lights on the history or character of the author, their occasional introduction into the narrative of his life becomes proper, and may be highly interesting. In the present in-

ART. XI. Memoirs of the Life and Writings of the Reverend Alexander Geddes, LL. D. By John Mason Good. London. Kearsley. 1803. 8vo. pp. 547.

stance, no such apology can be pleaded for the compilations of this biographer; for, in general, such of the writings of Dr Geddes as are worthy of preservation, must be easily accessible to those who are desirous of consulting them; and the partial excerpts of Mr Good, can scarcely be interesting to any stafs of readers but fuch as would prefer their perusal in connexion with the original works from which they are torn. It is far from our meaning to impute to Mr Good any mercenary defign of swelling the volume by this easy art of quotation; but we apprehend that, milled by veneration for his learned friend, he has in this respect offended probably against his own better judgement, and certainly against the rules of good taste in biographical writing. In tracing the course of those pursuits which have occupied the life of a literary man, the biographer ought not to obtrude upon us a reperusal of his works. It is his province and his duty to give fuch a general review as may ferve merely to mark the nature and limits of the plans that may have been adopted, and furnish an adequate notion of the mode in which their execution has been accomplished. If he be truly qualified for fuch a task, he ought to address us in his own person; and the unity of his composition ought not to be broken by quotations, unless when they may happen to be requilite for indicating some delicate peculiarity of manner, which it might be difficult to feize in a general description.

While we feel ourselves strongly called upon to offer this general remark on the execution of the work before us, we are at the fame time fully prepared to bestow upon its author, a very confiderable share of praise. He was the intimate and confidential friend of Dr Geddes; and though their acquaintance is stated to have commenced at a late period, it appears to have led to an ardent mutual attachment. Although he appears to have been prompted to the undertaking by a duteous regard to to the memory of his friend, and a pious and laudable zeal to rescue his name and character from the slanderous insults of bigotry; yet it appears to us, that his ardour, while it has ferved to stimulate his industry, has not warped his judgement either of the man or the writer, and that it has emboldened him to do ample justice to the virtues and talents of Dr Geddes, without betraying him into any timid and unmanly concealment of his failings. It is by the folid qualities of its matter, that the work before us comes recommended: in the secondary qualities of manner, there is little to entitle it to any distinguished praise. The style is not remarkably deficient in perspicuity or vigour:

it seldom aspires to any of the higher graces of composition, and when it does, the attempt is rarely fortunate. The Life of Dr Geddes' will be perused by scholars of the class to which he himself belonged; but it is not one of those happier productions, to which the mere force of writing will give established

currency among general readers.

The fame of Dr Geddes rests on his literary talents; and from his earliest years he seems to have been almost exclusively devoted to literary pursuits: yet his history is diversified by a greater variety of changeful occurrences, than is usually to be found in the life of a folitary student. In its earliest period it is interesting, chiefly from the humble and barren prospects by which it was apparently circumscribed. His parents were tenants of a small farm in the county of Banff in Scotland. and were among those who still adhered to the ancient religion of the country. This attachment, however, was probably blended with a larger share of mental freedom than was often to be found among their Roman-Catholic brethren of fimilar rank; and we may conceive that from them was transmitted to their son, a portion of that ardent activity of mind, and that intrepidity of intellectual character for which he was peculiarly diftinguished, and which gave a decided colouring to the complexion of his fortunes. In the scanty library of his native cottage, the most attractive volume was an English translation of the Bible; and to this circumstance, his biographer is inclined to trace the origin of that decided predilection for 'Biblical' studies which he discovered from the early period of childhood, when he imbibed the first rudiments of learning under the tuition of a country schoolmistress.

From the care of this village matron, he passed into that of a private tutor retained in the family of the gentleman on whose effate his father refided: and afterwards he was removed from home to Scalan, a free Roman-Catholic feminary established in a remote and dismal valley of the Highlands of Scotland, and which was limited to boys who had been destined for the Church. and whose studies were to be completed in some foreign univerfity. Few of our readers, we presume, have ever heard of this humble cradle of the sciences; and it probably derives its strongest claim to fame, from having detained young Geddes till his twenty-first year, when he was transferred to the Scotish College at Paris. If his biographer be correct in supposing that the course of classical study pursued at Scalan, did not extend bewond the vulgar Latin version of the Scriptures, it may be regarded as a striking indication of the native and irrepressible vigour / rigour of his own mind, that he should have emerged from this monkish hovel with so decided a bent towards the pursuit of liberal knowledge as he now discovered. In the most celebrated schools of Paris, a field was opened to him for the gratification of his ruling propensity; of his opportunities of improvement, he would appear to have fully availed himself; and, by his proficiency and skill in the performance of his academical exercises, he attracted the applause and the friendship of his

masters and literary superiors.

Hitherto, however, his destiny appeared to be limited to the humble station of a Roman-Catholic priest among his native Such was the professional object, in pursuit of which he returned to Scotland; and which, after feveral vicisfitudes, was at length attained by his acceptance of the charge of a Catholic congregation in the county of Banff. In his own mind, Dr Geddes had long before projected the arduous undertaking of a new translation of the Hebrew Scriptures from corrected texts of the originals, and had been industriously training himself for its accomplishment; but, in the seclusion of his prefent fituation, and amidst the various duties which he was called upon to discharge, it appears to have been suspended or abandoned. But even here, the natural activity and genuine benevolence of his mind were not to be repressed; and while by his virtues he conciliated the love, and commanded the veneration of his flock, he attracted the notice equally of the learned and of the gay, by the extent of his learning and the pleasing vivacity of his manners.

Here, however, he might have long remained, but for misfortunes, which he may be said to have brought upon himself by an imprudent indulgence in the exercise of those virtues which elevated his character above the level of those around him, and gave him the most honourable claim to their support; but which, in the end, were so far fortunate in their operation, by compelling him to quit his retirement, and to return once more into that literary career for which he was naturally destined. Without repeating the particulars given by his biographer, it may be enough here to state, that having injured his private fortune by acts of disinterested beneficence, and having in vain attempted to retrieve the injury by the labours of agriculture, he felt himself strongly impelled, by the pressure of pecuniary difficulties, to avail himself of the literary talents which he must have been conscious of

possessing.

Another cause, still more irresistible, operated likewise in the same direction. Dr Geddes was endowed by nature with a mind

mind of uncommon ardour and activity; and having early committed himself to the free and undaunted exercise of his own understanding, he had emancipated himself from the illiberal prejudices of theological bigotry, and, by the vigour of his conftitution, had repelled the infection of those vices which have been thought too apt to taint the priestly character. Instead of flattering and cherishing the baneful animolities which had long fet his brethren at variance with those who had revolted from the Romish Church, he laboured with unwearied affiduity, and with the most pleasing success, in softening their reciprocal asperities, and in training them to habits of mutual charity and forbearance. In his own conduct, he gave an unlimited range to this liberal and comprehensive benevolence. He lived in undifguifed intercourse and friendship with the Protestant clergymen in his neighbourhood; and he had even the hardiness to think, that, without being polluted, he might listen to the instructions delivered from a Protestant pulpit. This unprecedented difregard of the maxims of that malignant and dubious policy, by which the brethren of his order had hitherto been guided, appears to have given alarm and mortal offence to his ecclefiastical superiors; and, finding that he was not of a character to be intimidated by threats from obeying the dictates of his own mind, it was, in their wildom, judged expedient, by a formal sentence, to separate him for ever from a flock in whom his virtues had created a dangerous and feducing attachment.

This event might be confidered as fortunate for his fame, if not for his private happiness, by fixing, or at least accelerating, his refolution of quitting his retirement for a fituation better fuited to the profecution of those literary schemes which had awakened his early ambition. His translation of Select Satires of Horace, though more remarkable for spirit than elegance, had already obtained a reception from the public which tended to inspire him with greater considence in his own powers; and even the very moderate profits of the publication, under the preflure of pecuniary difficulties, operated as an additional incentive to the execution of more arduous undertakings. He now fixed his ordinary refidence in London; was invited to officiate as priest in the chapel of the Imperial Ambassador; and resumed his favourise project of a new translation of the Bible. This. however, was a work of perilous adventure and doubtful iffue. and would have been probably abandoned for easier and more profitable labours, had not the utmost exertions of its author been called forth by the animating and steady patronage of the late

late Lord Petre. It was to the 'princely munificence' of this nobleman that Dr Geddes became indebted for the leifure which was to enable him to profecute his plan; and it may be regarded as honourable alike to both, that fuch weighty obligations could be borne without galling a mind jealous of its own independence, and without disturbing the course of an equal and ardent friendship.

For several succeeding years, Dr Geddes seems to have devoted nearly the whole of his attention to the different critical labours preparatory to his great work; and in perufing the minute narrative of Mr Good, it is impossible not to regret, that the versatility of his genius, or the ardour of his disposition, should have ever diverted him from the exclusive prosecution of a planwhich it would have demanded the undivided exertions of a long life to bring to a successful completion. His capacity of intense application to literary labour feemed, on the one hand, to promife the most prosperous issue to the undertaking to which he had thus destined himself; but in this undertaking he was never so completely absorbed, as to become a careless spectator of what was passing around him in the world; and a natural vehemence of temper, which feems, by indulgence, as much as from the influence of external circumflances, to have grown into a habit of violent irritability, was too often prompting him to take a share in discussions of merely temporary interest. As a polemical writer, particularly on those questions which related to the political privileges or ecclefiastical jurisdiction of the English Catholics. he was unable to refrain from mingling in the din and danger of the contest. As the champion of his party, he distinguished himself equally by his acuteness and intrepidity; and had the honour of being marked out as the object of peculiar terror and aversion to those of his own persuasion whose prejudices or whose pride were offended by the boldness of his speculations. or the firm independence of his conduct. In this part of his narrative, the details given by Mr Good are ample to excess; yet they are not altogether incurious, as exhibiting the feeble, expiring convultions of that gigantic hierarchy, which once exercifed an uncontrouled domination over all Christendom. and which three centuries of rapid decline have not yet brought to a final termination.

Besides these more serious deviations from the course of his savourite pursuit, Dr Geddes seems to have been incapable of refraining from lighter excursions into the fields of sancy and of wit: and from time to time he attracted a share of public society as a writer of humorous and macaronic verses. These must

must be regarded merely as the relaxations of an active mind; but they do not appear to us to be of that happy fort which can furvive the fleeting interest of the topics to which they relate. Some of the best of his Latin verses are those which celebrate the French Revolution. It was scarcely possible that a mind, formed like that of Dr Geddes, should not have been seduced into admiration of an event which, at least when beheld at a diftance, appeared to open with the most splendid prospects of national felicity; and while it yet remained possible to mistake the evils which it engendered, for inconveniences of only secondary importance, it is not much to be wondered at that he should have clung with fondness to his first visionary prepossessions. is more to be regretted that his native benevolence does not feem to have completely protected him from a flight taint of that ferocity of temper which is but too apt to take possession of those whose minds are agitated by events which involve so deeply the future fortunes of mankind.

Although the details given by Mr Good relative to the controversial as well as poetical writings of Dr Geddes, occupy a considerable portion of this bulky volume, yet they are by no means the most important or interesting part of his literary life. We have already expressed our regret that these inferior and temporary pursuits should have diverted so much of his attention from an object to which he ought to have been solely devoted. The evil, however, consisted not so much in the mere waste of time or of labour, as in the increase of that distempered irritability of mind which his controversial warfare produced, and which not only tended to unsit him for the calmer business of of philology, but indirectly created additional obstacles to the success of an undertaking, in its own nature abundantly pe-

rilous.

To those who have remarked the progress of critical learning in modern Europe, it must be obvious, that in its application to those writings which are accounted sacred, and which are appealed to as the standards of religious belief, its advances have been comparatively slow. At a period when the learning and ingenuity of scholars were zealously employed in the restoration of the profane writings of Greece and Rome, from that degraded state of corruption into which they had fallen in the dark ages, the Christian divine seems to have acted on the supposition that the sacred scriptures were, by a perpetual miracle, exempted from those contingencies which naturally accompany the succession those contingencies which naturally accompany the succession for text ever suffer him to approach it, unless, perhaps, when

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some laudable object was to be gained by the substitution of a more commodious reading. It may be regarded as a discovery of recent date, and which has been occasioned by the perverse labours of modern collators, that the originals of the Jewish and Christian Scriptures, are no longer to be met with in a state of absolute purity; that, in the lapse of ages, they have sustained the same injuries from the ignorance, inattention, or infidelity of transcribers, which it is the object of profane criticism to redress; and that precisely the same rules and methods of correction must be applied to every written composition in the language of men, from whatever fource it may have been derived. Yet, while all this is now generally admitted in theory, it feems still to be with trembling reluctance that the greater number of Christians allow their Bibles to be subjected to the tinkering operations of collators and emendatory critics; and it may probably be long before the labours of the Biblical philologist are suffered to proceed unimpeded by those peculiar and extraneous difficulties which the interests and the passions of men are so apt to create in this department of literature.

Although several English divines of great eminence had made partial inroads into this province, yet Dr Geddes was the first who, unappalled by the natural or adventitious difficulties of the task, conceived the design of giving to his countrymen a vertion of the Old and New Testaments, in which he should avail himself of all those additional lights which modern criticism had thrown on the state of the Hebrew and Greek origin-

als.

It was not till the year 1786, that Dr Geddes, at the age of fifty, had advanced to far in his arduous course of preparatory Rudy, as to come forward with a prospectus of his intended work. This prospectus, which is itself a considerable volume, exhibited a very elaborate and learned account of the progressof Biblical philology, and a very formidable display of the defects of his predecessors, which it was his object to supply. After giving an analysis of this publication, for the minuteness of which he offers some apology, Mr Good observes that its favourable reception, and the compliments paid him on a perusal of it by many scholars of the first eminence and erudition, were regarded by the author as an omen of his future fuccels, and ferved to stimulate him, in a tenfold degree, to perseverance in his labours. Several other smaller publications also preceded the appearance of the principal work, in which Dr Geddes took occasion either to state the difficulties in the execution of a vernacular version which it was his aim to overcome, or vol. III. No. 6.

to folke the doubts and repel the holtile attacks of a hoft of cor-

respondents.

At length, in the year 1792, he gave to the world the fift volume of a new translation of the books accounted Sacred by Lews and Christians, otherwise called the Books of the Old and New Covenants, from corrected texts of the originals, with various readings, explanatory notes, and critical remarks. After an interval of five years, he published, in 1797, a second volume of the translation, and, in 1800, there appeared a volume of Critical Remarks, corresponding to the first of the translation. Had the hopes and defigns of this laborious scholar been accomplished, the whole work would have been extended to, at least, eight large volumes in quarto. But this happy termination of his labours, he was destined never to reach; and he died on the 2d of February 1802, while his version of the Psalms of David

was passing through the press.

In estimating the merits of Dir Geddes as a translator and crific, we shall not presume to hazard any opinion of our own, upon a subject which necessarily demands a profound acquaintance with those studies to which his life was devoted. In so sar as a mere English reader can pretend to judge, we should have no hefitation in faying, that in the moderaized phraseology of Dr Geddes, the writings of Moses lose much of that venerable dignity and grace which they exhibit in the more antiquated garb of our established translation; and that, where the meaning of the original had not been mistaken, we should infinitely have preferred the idiomatical irregularities of Wickliff and Tyndal, and King James's translators, to the smartness and grammatical methodism of Dr Geddes, degraded as they certainly are in many influences by the opposite vices of scholattic pedantzy, and colloquial vulgarifm-

In whatever regards the more substantial qualities of the work. it seems impossible to doubt that Dr Geddes is justly entitled to a large share of praise. On this head, Mr Good appears to speak with great liberality and candour. After giving ample specimens of the translation, and questioning the critical opimions of his learned friend in various instances, he observes.

In his translation, our author has uniformly confieed histiest to the duties of a faithful interpreter. In a few doubtful passages he may perhaps have overflepped the modefly of his office : but, in general, his corrections are well supported by original arguments, by criticisms of prior communications, or the common consent of approved readings. His Lyle Whe most part plain and perspressous, conveying the sense of the hal in its native simplicity. But his language is occasionally unsqual, and firongly partakes of the alternations of his own physical confitution's conficution; in confequence of which, is the said of a passage, niofle equilitely rendered in the main, we are at times furprised with feholicities and extraneous expressions, or disgusted with implicitly which shall are strong of an individual unaffisted by fellow-laborates, and that it consists tutes his first attempt. Had he lived to have realized his own without and to have revised it by a second edition, published in twelves without his Critical Remarks, there would have been little rooms for many of the observations which the cause of truth has thus compelled me to hazard. As it is, it offers, so far as it proceeds, the most intelligible version of the sacred records in the English, or perhaps in any language whatever; and there are sew obscure passages in our established translation which this version will not illuminate.

But though in his interpretation he faithfully refirieted himself to the duties of a translator, in his volume of Critical Remarks our author conceived himself at liberty to throw off every restriction whatever; and this part of his labours has, in consequence, been open to much, severity of attack, and the source of no small degree of undeserved op-

probrium. ' p. 358. 359.

Most of our readers are probably acquainted with the general nature and tendency of those peculiar opinions to which Mr Good here alfudes. When we confider the formidable obstacles which naturally presented themselves to the prosperous issue of his undertaking as a mere translator of the Sacred Writings, and to furmount which might have been sufficient triumph for any unassisted individual, it must be matter of regret that Dr Geddes should have embarrassed his own progress, and in a great measure defeated his own laudable exertions, by rushing impetuously into those general controversies which are beyond the province of the mere philologist, and which regard not the sense, but the authority and divine original of these ancient compositions. But on these momentous topics Dr Geddes had formed very decided opinions, derived from what he conceived to be a deliberate and exercitive confideration of contending arguments; and being of a disposition too open and intrepid to disguise of suppress his fentiments, even at the peril of martyrdom, he was prompted in an evil hour for his own repole, to Rand forth as the avowed antagonist of the supernatural mission of the Jewish Lawgiver, and of the divine inspiration of those books which have descended to us as les compositions. On these subjects, Mr. Good has declared his own opinions to be in decided opposition to those of Dr Gedden at the same time, with becoming regard to the memory of his excellent friend, he firmly upholds his claim to rectionde of intention, and repels, with honest indignation, the case Interpret of those who would refuse to him the name of Christians and who feemed plously an deplore their own inability to refute Ale Lerence in the Antion of the auto do fin

We

We mult refer our readers to the narrative of Mr Good for a detail of those irritating controversies and hostilities which but too much embitterred the remaining days, and probably abridged the life of this hold and indefatigable scholar. It was from the divines of his own Church that he experienced the hardest and most intolerant treatment; and as he had originally taken his ground with almost unexampled hardihood in a Christian divine. even his enemies must admit that he continued to maintain it without flinching, and without suffering the flightest encroachment on the dignity of an independent and upright mind. open and manly warfare, the contest would have served only to invigorate his spirits and his powers; but the infidious arts, and undermining, persecuting policy of cowardly and bigotted adversaries, were more than a temper of fo much natural irritabi-Tity could long fustain. Neither the unbending firmness of his character, nor the confolations of tried friendship, nor the refaxations of a mind playful and innocent to an uncommon degree, could fave his spirits and his health from sinking under his unfinished task. Even the grave scarcely afforded him an alylum from the attacks of his calumniators: the paltry hackneyed lie of a deathbed recantation, studiously concealed, was impudently reforted to as the last effort of polemical cowardice; and our readers will perhaps smile to hear, that, as the last ebullition of polemical rage, the ceremony of faying public mass for the deceased was prohibited by an express interdict of the vicar apostolic.

Mr Good concludes his narrative with a general sketch of the character of his deceased friend. A part of it may here be subjected, as affording a specimen of the execution of the work before us; from which, without further commentary, we shall leave it to our readers to judge how far the general remarks we

have already hazarded be well or ill founded.

Such, as far as I have been able to collect it, is the hillory of the late Dr Geddes; a man of no common character, and whole energy of saind, and activity of body, feemed engaged in a perpetual content for the maftery. In his corporeal make he was flender, and in the bold and formidable outlines of his countenance not highly prepoffeffing on a first interview: but never was there a face or a form through which the fuel developed itself more completely than through his own. Every feature, and indeed every limb, was in harmony with the entire tystem, and displayed the reflects and indefatigable operations of the interior of the machine. A play of cheerfulness beamed uniformly from his cheeks, and his animated eyes rather darted than looked benevolence. Yet such that a irritability of his nerves, that a flight degree of opposition to opinions, and especially when advanced by persons whose mental there is did not warrant such opposition, put to flight in a memeat the mental character of his countenance, and cheerfulness and hencyclence

were exchanged for exacerbation and tumpit. Of this physical and irrefiftible impulse in his conflictation, so man was more thoroughly Confible than himself; and if no man ever less succeeded, in subduing it, no man ever took more pains to obtain a victory. Let us however, fairly strike the balance, and we shall find, that if such a peculiar construction of body had its evil, it also had its advantage; and that the very irritability of foul which occasionally hurried him, against his confert, into a violence of controverly not perfectly confident with the polished manners of the day, hurried him a thouland times oftener, with a thousand times more rapidity, because affished inflead of opposed by his judgement, into acts of kindness and benevolence. The moment he beheld the possibility of doing good by his own exertions, the good was inflantly done, although it were to a man who, perhaps, had causelessly quarrelled with him a few hours before. It was not in his nature to paule, with our academic and cold-blooded philosophers of the present day, that he might first weigh the precise demand of moral or political justice, and inquire into the advantage that would accrue to himself, or in what manner the world at large might be benefited either by a good action or a good example: it was kimulus enough for him that diffress existed, and that he knew it—and it afterwards afforded him fatisfaction enough that he had removed or mitigated it.

In intellectual talents he had few equals, and fewer "fill who had improved the possession of equal talents in an equal degree. To an ardent thirst after knowledge, in all its multitudinous ramifications, he added an aftonishing facility in acquiring and retaining it; and so extenfive was his erudition, that it was difficult to flart a subject into which he could not enter, and be heard with both attention and profit. But theology was the prime object of his pursuits, the darling science of his heart, which he had indefatigably studied from his infancy, and to which every other acquisition was made to bend. From his verbal knowledge of the Bible, he might have been regarded as a living concordance; and this not with respect to any individual language alone, or the various and rival renderings of any individual language, but a concordance that should comprise the best exemplars of the most celebrated tongues into which the Bible has ever been translated. As an interpreter of it, he was strictly faithful and bonest to the meaning, or what he apprehended to be the meaning, of his original; and though, in his critical remarks upon the text, he allowed himself a latitude and a boldness which injured his popularity, and drew down upon his head a torrent of abulive appellations, how feldom have we seen a man, systematically educated in the characteristic teners of any established community whatsoever, and especially of the church of Rome, who, when he has once begun to feel his independence, and has determined to shake off his fetters, and to think for himself, has not flown much further from the goal at which he flarted! p. 529-534.

To an universal knowlede of the Bible, Dr Geddes added a drep and disporate acquaintance with the history of his own Church; and fo choroughly was he versed in its annals, in its juriforudence, in its polemics, that I have good authority for afferting, that even at the Vatican it was doubted whether the papal dominious themselves could produce

his Inperior.

distinguished character; and when, in his own language, he wrote with coolness and circumspection, his diction, which was always perspicuous, was peculiarly elegant and correct. His style is nevertheless extremely variable: he often composed precipitately, and occasionally in a state of high mental irritation: and though there be a character which still adheres to what he wrote, and fully decyphers the writer, his compositions uniformly partake of the predominant sensation of the moment. In few words, he was a benevolent man, an accomplished scholar, an indestatigable friend, and a sincere Christian. ' 536 537.

Ang. XII. Des Pierres tombées du Ciel, ou Lithologie Atmospherique, &c. &c. Par Joseph Izarn, Professeur de Physique, &c. Paris, De la Lain, fils. An XI. (1803.) pp. 427, 8vo.

This work is a collection of all the facts and opinions which have of late years been given to the world with respect to the very fingular phenomenon mentioned in the title. M. Izarn's share of merit in the compilation is extremely small. He has only transcribed the statements of others upon the subject, from their own words, when they happened to write in French, and from French translations, when the original was either English or German. He has here and there added a few remarks. of little value; and has given, at the end, a theory of his own, detailed with great prolixity, and fariguing affectation of accuracy, but in itself by far the most unsatisfactory of any that has been offered, to explain the difficulties of the question. As the labours of chemical inquirers have now greatly augmented the many wonders of this subject, and brought within the range of philoforhical discussion, ideas which, a few years ago, were lest to the esecutious fancy of the vulgar, we shall take the liberty of prefenting to our readers a connected view of the evidence which has been procured upon this very fingular branch of natural history, and a statement of the comparative difficulties which incumber the different theories founded upon that evidence. We wish to be understood as offering this sketch as a substitute for M. Izam's work; because we conceive, that something more was required of him, than a mere transcript of the documents which contain the facts of the case.

The histories of all nations, in early times, abound with Jabulous accounts of natural phenomena. Showers of blood and of John battles of armed men in the air; animals of different descriptions uttering articulate sounds, are a few of the tales which we meet with in the annals of ancient Rome : and the lively imagination of Oriental countries has infinitely varied this catalogue of wonders. Of fuch incidents, however, it has frequently been found possible to give some explanation consistent with the ordinary laws of nature, after the narratives have been freed from the fictions with which superstition or design had at first mingled them. But it is fingular with what uniformity the notion of showers of stones has prevailed in various countries; at almost every period of society; with how few additions from fancy the story has been propagated; and how vain all attempts have proved, to account, by natural causes, for the phenomenon, with whatever modifications it may be credited. Accordingly, philosophers have rejected the fact, and either denied that stones did fall, or affirmed, at least, that if they fell on one part of the earth, they were previously elevated from another. The vulgar have as stedfastly believed, that they came from beyond the planet on which we live; and every day's experience feems now to increase the probability, that in this instance, as in some others, credulity has been more philosophical than scepticism.

There are two methods of inquiring into the origin of those infulated masses which are said to have fallen in different parts of the earth. We may either collect, as accurately as possible, the external evidence, the testimonies of those persons in whose neighbourhood the bodies are situated; or we may examine the nature of the substances themselves, and compare them with the kinds of matter by which they are surrounded. The first mode of investigation is evidently more liable to error, and less likely to proceed upon sull and satisfactory data than the other. But if both inquiries lead to conclusions somewhat analogous; if both the inductions of fact present us with anomalous phenomena of nearly the same description, and equally irreducible to any of the classes into which all other sacts have been arranged, we may rest assured that a discovery has been made—and the two methods of demon-

Aration will be reciprocally confirmed.

Sugar St.

I. The first narrative which has been offered to the world, under circumstances of tolerable accuracy, is that of the celebrated Gassendi. He was himself the eye-witness of what he relates. On the 27th of November, in the year 1627, the sky being quite clear, he saw a burning stone fall on mount Vaisir, between the towns of Guillaumes and Perne in Provence. It appeared to be about four seet in diameter, was surrounded by a luminous circle of colours like a rainbow, and its fall was accompanied with a noise like the discharge of cannon. But Gassendi inspected the supposed fallen stone still more nearly; he found that it weighed 59 lib., was extremely

tremely hard, of a dull metallic colour, and of a specific gravity confiderably greater than that of common marble. Having only this solitary instance to examine, he concluded, not unnaturally, that the mass came from some neighbouring mountain, which

had been in a transient state of volcanic eruption.

The celebrated stone of Ensisheim is not proved to have fallen, by testimony quite so satisfactory; but there are several circumstances narrated with respect to it, which the foregoing account of Gassendi wants. Contemporary writers all agree in stating the general belief of the neighbourhood, that on the 7th of November 1492, between eleven and twelve o'clock a. m. a dreadful thunder-clap was heard at Enfisheim, and that a child faw a hure stone fall on a field fowed with wheat. had entered the earth to the depth of three feet; it was then removed, found to weigh 260 lib., and exposed to public view. The defect in Gaffendi's relation is here supplied; for we have the nature of the ground diffinctly described: the natives of the place must have known that in their wheat field no fuch flone had formerly existed: but the evidence of its having actually been observed to fall, is by no means so decisive as that of Gassendi.

Other recitals have been given of similar appearances, but by no means so well authenticated, or so fully examined, although somewhat nearer our own times. In 1672, one of the members of the Abbé Bourdelot's academy presented at one of the meetings, a specimen of two stones which had lately fallen near Verona; the one weighed 300, the other 200 lib. The phenomenon, he stated, had been seen by three or four hundred persons. The stones fell in a sloping direction, during the night, and in calm weather. They appeared to burn, fell with a great-noise, and ploughed up the ground. They were afterwards taken from thence, and fent to Verona. This account, it may be observed, was published in the same year. Paul Lucas the travelles relates, that when he was at Larissa in 1706, a stone of 72-lib. weight fell in the neighbourhood. It was observed, he fays, to come from the north, with a loud hiffing noise, and feemed to be enveloped in a small cloud, which exploded when the stone fell. It smelt of sulphur, and looked like iron drofs.

M. De la Lande, in 1756, published an account of a phenomenon very nearly resembling the above, but desicient in several points of direct evidence. His narrative, however, deferves our attention, because he seems to have been upon the post, and to have examined, with great care, the truth of the circumstances which he describes. In September 1753, during an extremely clear and hot day, a noise was heard in the neighbourhood

neighbourhood of Pont-de-Veile, refembling the discharge of artillery. It was so loud as to reach several leagues in all di-At Liponas, three leagues from Pont-de-Velle, a rections. hissing sound was remarked; and at this place, as well as at Pont-de-Velle, a blackish mass was found to have fallen in ploughed ground, with fuch a force as to penetrate half a foot into the foil. The largest of these bodies weighed 20 lib.; and they both alike appeared, on the furface, as if they had been exposed to a violent degree of heat. It may here be observed, that the small depth at which these bodies were found in the ploughed land, renders it in the highest degree improbable that they should have existed there previously to the time of the explosion. To the same purpose, we may remark the complete resemblance of the two masses found at so great a distance from each other.

In the year 1768, no less than three stones were presented to the Academy of Sciences at Paris, all of which were faid to have fallen in different parts of France; one in the Maine, another in Artois, and the third in the Cotentin. These were all externally of the very same appearance; and Messrs Fougeraux, Cadet, and Lavoisier drew up a particular report upon the first of They state, that on the 18th of September 1768, between four and five o'clock in the evening, there was feen near the village of Luce, a cloud in which a short explosion took place, followed by a hisling noise, without any flame; that some persons about three leagues from Luce, heard the fame found, and, looking upwards, perceived an opaque body which was describing a curve line in the air, and was about to fall upon a piece of green turf in the neighbouring high road; that they immediately ran to this place, and found a kind of stone, half buried in the earth, extremely hot, and about 72 lib. weight. This account of the fact was communicated to the academicians by the Abbé Bachelay. But they do not appear to have attached much credit to the whole circumstances of his narrative; for they conclude (chiefly from feveral experiments made to analyse it) that the stone did not fall upon the earth, but was there before the thunder-clap, and was only heated and exposed to view by the stroke of the electric fluid.

Of late years, the attention of philosophers has been more anxiously directed to this curious subject; and more accurate accounts of the supposed fall of stones have been collected from various quarters. It is not a little singular, that the narrative which, of all others, was supported by the very best and most direct evidence, was treated by naturalists near the spot, with perverse incredulity, until the results of chemical analysis, about ten years after the thing happened, began to operate some change

change upon the common opinions relating to such matters. We allude to the shower of stones, which fell near Agen, 24th Inly 1790, between nine and ten o'clock at night. First, a bright hall of fire was feen traverling the atmosphere with great rapidity, and leaving behind it a train of light which lasted about fifty seconds; a loud explosion was then heard, accompanied with Tparks which flew off in all directions. This was followed, after a short interval, by a fall of stones, over a considerable extent of ground, at various distances from each other, and of different fizes; the greater number weighing about half a quarter of a pound, but many a vast deal more. Some fell with a hilling noise, and entered the ground: others (probably the fmaller ones) fell without any found, and remained on the furface. In appearance, they were all alike. The shower did no confiderable damage; but it broke the tiles of some houses. All this was attested in a proces-verbal, figned by the magistrates of the municipality. It was farther substantiated by the testimony of above three hundred persons, inhahitants of the districk; and various men, of more than ordinary information, gave the very same account to their scientific correspondents. One of these (M. D'Arcet, son of the celebrated chemist of that name) mentions two additional circumstances, of great importance, from his own observation. The stones, when they fell upon the houses, had not the sound of hard and compact substances, but of matter in a soft, half-melted state; and such of them as fell upon fraws, adhered to them, so as not to be easily feparated. It is utterly impossible to reconcile these facts with any other supposition, than that of the stones having fallen from the air, and in a state of fusion. That they broke the roofs of houses, and were found above pieces of straw adhering to them. is the clearest of all proofs of their having fallen from above.

Although nothing can be more pointed and specific than this exidence, it yet derives great confirmation from the similar accounts which have still more recently been communicated. On the 18th December 1795, the weather being cloudy, several persons in the neighbourhood of Captain Topham's house, in Yorkshire, heard a loud noise in the air, followed by a hissing sound, and afterwards selt a shock, as if a heavy body had sellen to the ground at a little distance from them. One of these, a ploughman, saw a huge stone falling towards the earth, eight or sine yards from the place where he stood. It was seven or eight yards from the ground when he first observed it. It threw up the mould on every side, and buried itself twenty-one inches. This man, assisted by others who were near the spot at the same time, immediately raised the same, and sound that it weighed about

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56 lib. These statements have been authonicated by the figure

fures of the people who made them.

On the 17th March 1798, a body, burning very brightly, passed over the vicinity of Ville-Franche, on the Saone, accompanied with a hissing noise, and leaving a luminous track behind it. It exploded with great noise, about twelve hundred feet from the ground; and one of the shivers, still luminous, being observed to fall in a neighbouring vineyard, was traced. At that spot, a stone above a foot in diameter was found to have penetwated about twenty inches into the soil. It was sent to M. Sage, of the National Institute, accompanied by a narrative of the force going circumstances, under the hand of an intelligent eye-witness.

While these observations in Europe were daily confirming the original but long exploded idea of the vulgar, that many of the luminous meteors observed in our horizon are masses of ignited matter, an account of a phenomenon, precisely of the same description, was received from the East Indies, vouched by authority peculiarly well adapted to secure general respect. Mr Williams, a member of the Royal Society of London, reliding in Bengal, having heard of an explosion, accompanied by a defeent of stones, in the province of Bahar, made all possible inquiries into the circumstances of the phenomenon, among the Europeans who happened to be on the ipot. He learnt, that on the 10th December 1708, at 8 o'clock P. M., a luminous metger, like a large ball of fire, was feen at Benares, and in different parts of the country; that it was attended with a rumbling, loud noise; and that, about the same time, the inhabitants of Krakhut, fourteen miles from Benares, saw the light, heard a loud thunder-clap, and, immediately after, heard the noise of heavy bodies falling in their neighbourhood. Next morning. the fields were found to have been turned up in different spots. which was easily perceived, as the crop was not more than two or three inches above the ground: and stones of different fizes. but apparently of the same substances, were picked out of the moift foil, generally from a depth of fix inches. As the occurrence took place in the night, and after the people had retired to rest, no one observed the meteor explode, or the stones fall: but the watchman of an English gentleman who lived near Krakhut, brought him one next morning, which he faid had fallen through the top of his hut, and buried itself in the earthen floor.

Several of the foregoing narratives mention the material circumstance, of damage done to interposed objects by the stones supposed to have sallen on the earth. In one instance, still more diffined traces were left of their progress through the air. During the explosion of a meteor, on the 20th August 1789, near Bordeaux, a stone, about sisteen inches diameter, broke through the roof a cottage, and killed a herdsman and some cattle. Part of the stone is now in the museum of Mr Greville, and the rest in that of Bordeaux. It is singular that this fact is not mentioned by M. Izarn, nor by Vauquelin, although he examined a specimen evidently taken from the same stone, and received a process-verbal of the manner in which it fell. We take the account from Mr Greville's paper, (Phil. Trans. 1803. part I.); and he appears to have received it from M. St Amand, Prosessor

Natural History at the Central School of Agen.

It is quite impossible, we apprehend, to deny very great weight to all these testimonies; some of them given by intelligent eyewitnesses; others by people of less information, indeed, but prepoffessed with no theory; all concurring in their descriptions; and examined by various persons of acuteness and respectability, immediately after the phenomena had been exhibited. out offering any farther remarks, then, upon this mass of external evidence, we shall only remind our readers of the main points which it seems satisfactorily to substantiate. It proves, that, in various parts of the world, luminous meteors have been feen moving through the air, in a direction more or less oblique. accompanied by a noise, generally like the hissing of large shot, followed by explosion, and the fall of hard, stony, or semimetallic masses, in a heated state. The hissing found, fo univerfally mentioned; the fact of stones being found, unlike all those in the neighbourhood, at the spots towards which the luminous body or its fragments were feen to move; the scattering or ploughing up of the foil at those spots, always in proposition to the fize of the stones; the concussion of the neighbouring ground at the time; and, above all, the impinging of the stones upon bodies fomewhat removed from the earth, or lying look upon its furface—are circumstances perfectly well authenticated in these reports; and, when taken together, are obviously fatal to any theory, either of the maffes having previously existed in the foil ready formed, and having been disclosed by the electric fluid-or of their component parts having existed there, and having been united and confolidated by that fluid.

II. While the internal evidence on this question, that is, the inference arising from an examination of the stones the selections, agrees most harmoniously with the conclusion to which the narratives above analyzed force our assent, and greatly strengthens conclusion, it also leads to a farther knowledge of the sub-

ject,

ject, than the mere external evidence could of itself have afforded

The reports from all those who observed the meteors, and found the stones in the neighbourhood, after the explosions, agree in describing those substances as different from all the furrounding bodies, and as prefenting, in every case, the same external appearance of femi-metallic matter, coated on the outfide with a thin black crust, and bearing strong marks of recent This general resemblance we should be perfectly entitled to infer from the various accounts of eye-witnesses, even if no more particular observations had been made by men of fcience, to whose inspection many of the fallen bodies were submitted. But fortunately a confiderable number of these singular fubstances have been examined, with the greatest care, by the first chemists and naturalists of the age; and their investigations have put us in possession of a mass of information, capable of convincing the most scrupulous inquirer, that the bodies in question have a common origin, and that we are as yet wholly unacquainted with any natural process which could have formed them on our globe.

M. De la Lande appears to have examined the stones which fell near Bourg, in the province of Bresse, 1753, with some assetention. He remarks their external coating of black vitrished matter, the metallic or pyritical threads interspersed through them, and more particularly the cracks filled with metallic particles. His chemical analysis is very meagre and unsatisfactory; but such as it was, its results, as well as the general observations of external character, corresponded with the inferences drawn by him from a similar examination of the stone which fell, in 1750, near Coutances, in Normandy, at the distance of three hundred

and fixty miles from Bourg.

The external appearance of the three stones presented to the Academy of Sciences, as having fallen in different parts of France during the year 1768, was precisely the same. But Messiss Lavoisier, &c. the committee appointed to examine them, performed the chemical analysis with much greater accuracy and sulness than M. De la Lande had done. That which fell in the Maine, and was presented by the Abbe Bachelay, underwess the most careful process. It was found to contain, of sulphur, the most careful process. It was found to contain, of sulphur, the marked, however, that this decomposition was effected by means of experiments performed upon an integral part of the whole stone, considered as a homogeneous substance; whereas, it is in fact a congeries of substances, which ought to have been separately analyzed. This consideration will, in part at least, enable

entitle us to account for the apparent discrepancy between the positive obtained by the academicians and those of later experimentalists. Messes Lavoisier, &c. also examined particularly mother stone, said to have fallen in a different part of France, and obtained very nearly the same results. The only difference was, that it did not give out sulphurated hydrogenous gas when acted upon by the muriatic acid; a peculiarity distinctly observ-

able in the other fubstance.

The description which Professor Barthold gives of the external therafter of the Rone which fell near Enlisheim, in the fifteenth century, corresponds exactly with the descriptions given of these Rones, and of the ores examined by M. De la Lande. refults of his analysis are somewhat different; but he examined the whole heterogeneous compound, and not the parts separately. He concluded, that this mass contained a per cent. of fulphur, 20 of iron, 14 magnefia, 17 alumina, 2 lime, 42 filica. Mr Howard has very justly remarked, that the Professor's own account of his experiments is at variance with the idea of lime being contained in the substance; and that he has given no fufficient proof of the existence of alumina. It is also to be observed, that from the exceptionable method of analysis pursued both by Barthold and the academicians, the metallic particles were not examined with fufficient precision. The specific graviry of the stones examined by the academicians was to that of water, as 3535 to 1000. The specific gravity of the stone Ensisheim, as tried by Barthold, was 3233; that of the stone examined by Gaffendi (who saw it fall) was 14, common marble being 11; and, taking the specific gravity of marble to that of water, as 2716 to 1000, the specific gravity of the stone observed by Gaffendi will be to that of water as 3456 to 1000. So near a coincidence between observations, made at such a distance of time, upon these various substances, cannot fail to frike us as very remarkable, and to prepare us for that fuller demonstration of their identity, which was referred for the laboars of our countryman Mr Howard.

This excellent philosopher has elucidated the subject of our present confideration, by a course of experiments as interesting and instructive as any that the science of chemical analysis can been of. He fortunately obtained specimens of the stones which sall in several very distant quarters of the globe; at Benaria, and in Yorkshire (as we have already described); near Blenna, and in Behemia, according to evidence not altogether to latisfactory as

that upon which the other narratives reft.

He began his inquiries, very judiciously, by a minute exaministion of the external mineralogical characters of these four fubitances fubstances; and in this part of his task he was indebted to the learning and expertness of the Count de Bournon. The substances were found to resemble each other very closely in their general appearances, and in the nature of their component parts. The chief difference consisted in the different proportions in which the same component parts were combined, so as to form the aggregate of the heterogeneous masses. Their specific gravities were nearly the same, unless that the abundance of iron in one of the masses caused a considerable increase of its gravity. It may contribute to the formation of a precise estimate, if we present, in one view, the results of the experiments made to

measure the specific gravities of the most remarkable specimens hitherto examined. The four last in the list were calculated by the Count de Bournon. The specific gravity of water being

All the stones examined by Count de Bournon and Mr Howard were found to confift of four diffinct substances; small metallic particles; a peculiar martial pyrites; a number of globular and elliptical bodies, also of a peculiar nature; and an earthy cement furrounding the other conflituent parts. It was only the stone from Benares that Mr Howard could separate into its constituent parts, with sufficient accuracy, and in sufficient abundance, for a minute analysis of each. He found, however, that the nature of the metallic particles was the fame in all; they were in each case an alloy of iron and nickel. In the pyrites of the Benares stone, nickel as well as iron was detected; and the easy decomposition of the pyrites by muriatic acid, in all the specimena afforded a distinguishing character of this substance. The globules in the Benares stone contained silica, magnesia, and oxides of nickel and iron; the earthy cement confilled of the fame substances, very nearly in the same proportions. In the other flones, these globules could not be cally separated from the cement and pyrites. Mr Howard, therefore, after freeing the aggregate as well as possible from the metallic particles, and feveral of the globules, was obliged to fatisfy himself with analyzing the heterogeneous male. Still the composition appeared wonderfully to agree with that of the basis and globules of the

^{*} Found in Provence.

the Benares stone; as the following Table, collected from Mr Howard's experiments, and reduced to the parts of a hundred, will clearly evince.

	Oxid of Nickel.	Oxid of Iron.	Mag- nefia	Silica.
Stone from Benares Coment	2.5	34. 34.	15. 18.	50. 48.
With fome globules and the pyrites deprived	1.3	₫s.	24.6	50.
of its fulphur Sienna, Balis. Bobemia, Buks	2. 2.7	34.6 42.7	22.6 17.2	46.6 45.4

About the time that Mr Howard was engaged in these interesting researches, and before he had published the result of them, M. Vauquelin happened also to be occupied with the very same subject. He analyzed, though by a different process, the Benares stone, and two others which fell in 1789 and 1790 in the south of France. The results of his experiments agreed with those of our distinguished countryman in every particular; and we are now entitled to conclude, with perfect confidence, that the stones which have at different times fallen upon the earth, in England, France, Italy, and the East Indies, are precisely of the same nature, confifting of the same simple substances arranged in similar compounds, nearly in the same proportions, and combined in the same manner, so as to form heterogeneous aggregates whose general re-Temblance to each other is complete. We are further warranted in another important inference, that no other bodies have as yet been discovered on our globe, which contain the same ingredients; and, more particularly, that the analysis of these stones has made 'ns acquainted with a species of pyrites not formerly known, nor any where elfe to be found.

The general analogy between these stones and the masses of native iron found in different parts of the world, was too firiking to escape the eminent inquirers who have investigated this Tubject. They resemble each other in their external character, though not by any means to closely as the stones; but in one circumstance of their chemical composition, they have a remarkable similarity; both among themselves, and towards the Rony substances. M. Proust, a confiderable time before the date of Mr Howard's discoveries, had proved that the enormous mass of native iron sound in South America, contained a large portion of nickel in its composition. Mr Howard was led to the fame conclusion by analyzing another portion of this body; and he found that the folitary maffes disco-Fored in Siberia, Bohemia, and Senegal, contained a mixture of the Time metal with iron, though in various proportions. The Bo-- hemian

hemian iron is an alloy, of which nickel forms eighteen parts in the hundred; in the Siberian iron, it forms seventeen; and in the Senegal iron, five or fix. But what is still more striking, and tends to place the fimilarity of their origin beyond all doubt, the Siberian mass is interspersed with cavities, containing an earthy fubstance of the very same nature as the earthy cement and globules of the Benares stone; nay, the proportions of the ingredients, according to Mr Howard's analysis, are nearly alike, if we except that of the oxide of iron, which is confiderably finaller in the Siberian earth. This curious fact excites the strongest prepossession in favour of the idea, that the Siberian iron owes its origin to the same causes which formed and projected the different stones supposed to have fallen on the earth; and, coupled with the other details of the analysis, it naturally leads us to conclude, that the masses of native iron, as they are called, differ in no respect from the metallic particles, or the alloy of iron and nickel, which constitute one of the four aggregate parts in every stone hitherto examined.

It may be remarked, that, excepting the tradition of the Tartars respecting the fall of the Siberian iron from heaven, no external evidence has been preserved to illustrate the origin of those masses of native metal which have been analyzed by chemists. A tolerably authentic testimony has, however, been lately found, to prove the fall of a similar body in the East Indies. Mr Greville has communicated to the Royal Society (Phil. Trans. 1803) pt. I.), a very interesting document, translated from the Emperor Tchangire's Memoirs of his own reign. The Prince relates, that in the year 1620 (of our æra), a violent explosion was heard at a village in the Punjaub, and during the noise, a luminous body fell from above on the earth. That the amnil (or fiscal officer) of the diffrict immediately repaired to the spot where the body was faid to have fallen, and having found it to be still hot and not burnt up, caused it to be dug; when the heat increasing, he at last came to a lump of iron violently hot; that this was sent to court, where the Emperor had it weighed in his presence, and ordered it to be forged into a fabre, a knife, and a dagger; that the workmen reported it was not malleable, but shivered under the stroke; and that it required to be mixed up with one third part of common iron, when the mass was found to make excellent blades. The Royal historian adds, that upon the incident of this iron of lightning being manufactured, a poet presented him with a distich, purporting that, during his reign, the earth attained order and regularity; that raw iron fell from lightning, and was, by his world-fubduing authority, converted into a dagger, a knife, and two fabres.'

The exact refemblance of the occurrence here related, in all its effential circumstances, to the accounts of fallen stones formerly detailed, and the particular observation upon the unmalleable nature of the iron, give, it must be consessed, a very great degree of credibility to the whole narrative, and bestow additional weight on the inference previously drawn from internal evidence, that the solitary masses of native iron found in different quarters of the globe, have the same origin with the stones analyzed by Vauquelin and Howard.

We have now gone through the whole evidence, both with respect to the circumstances in which these singular bodies are sound, the ingredients of which they are compounded, and the outward appearance and structure which they exhibit: we are now to consider the inferences respecting their probable origin,

which this mass of information may warrant us to draw.

Independent of the diftinct negative which the external evidence gives to any fuch conclusions, we are fully entitled to deny that these bodies are formed in the ground by lightning, or existed previously there, both from their exact resemblance to each other in whatever part of the earth they have been found, and from their containing fubstances nowhere else to be met with. It cannot furely be imagined, that exactly in those spots where fire, of some unknown kind, precipitated from an exploded meteor, happened to fall, there should exist certain proportions of iron, sulphur, nickel, magnefia and filica, ready to be united by the heat or electricity. Still less conceivable is it, that in every such fall of fire, those ingredients should first combine, by twos and threes, in the very same manner, and then that the binary and ternary compounds should unite in similar aggregates. But, least of all is it reasonable to suppose, that bodies formed in the earth should, upon being dug up, be found enveloped in a crust different from the rest of their substance, and bearing evident marks of having undergone the action of heat in contact with the air.

The same unquestionable resemblance which prevails among all these bodies, and, still more, the peculiar nature of the pyrites which they contain, prove very clearly that they have not a volcanic origin. Even if such an hypothesis were liable to no other objection, it would be inadmissible on this ground, that we know of no volcano which throws up so small a portion of matter, and so uniformly of the same kind. But though we were to admit the existence of this volcano, where must we place it, that its eruptions may extend from Bengal to England, France, Italy, and Bohemia; nay, from Siberia to Senegal and South America? And if we are forced to admit the existence of a series of such volcanoes, which are known to us only by these peculiar effects of their eruptions, do

we not acknowledge that we are compelled to imagine a fet of causes, without any other foundation for our belief in them, than our occasion for their assistance in explaining the phenomenon? In short, do we not account for one dissibility, by fancying a greater? But if it is alleged that the stones come from volcanoes already known, we demand, what volcano exists in the Peninsula of India, or in England, or in France, or in Bohemia? And if it is said that these bodies are projected by Hecla, Ætna, &c. to all manner of distances, we must ask, whether this is not explaining what is puzzling, by assuming what is impossible? It is surely much better to rest satisfied with recording the sact, and leaving it under all its difficulties, than to increase its wonders by the addition of a miracle.

The same remark may be extended to those who have fancied that the constituent parts of the stones exist in the atmosphere, and are united by the fire of a meteor, or by the electric fluid. We have no right to make any fuch hypothesis. We have never feen iron, filica, &c. in the gazeous state. These bodies may, for ought we know, be compounds of oxygen and azote or hydrogen, &c.; but as yet we have no reason to think so. Besides, he who amuses us with this clumfy and gratuitous explication, will probably account for every other phenomenon by a fimilar process of creation: He may, with equal plausibility, conceive the earth to be formed by a union of burnt gases, and then cover it with vegetables, and people it with living creatures, by a few more conflagrations and explosions. Such, however, is the theory most heavily expounded by M. Izarn-spun, with tiresome and unprofitable industry, into cobwebs, which touch every fact, without catching it—and enveloped in the mist of general logical positions, which faintly conceal the fundamental postulate—an entire act of creation.

From the whole, we may fafely infer, that the bodies in queftion have fallen on the surface of the earth, but that they were not projected by any volcanoes, and that we have no right, from the known laws of nature, to suppose that they were formed in the upper regions of the atmosphere. Such a negative conclusion seems all that we are, in the present state of our knowledge, entitled to draw. But an hypothesis may perhaps suggest itself, unincumbered by any of the foregoing difficulties, if we attend to the following undoubted truths.

As the attraction of gravitation extends over the whole planetary fystem, a heavy body, placed at the surface of the Moon, is affected chiefly by two forces; one drawing it towards the centre of the Earth, and another drawing it towards that of the Moon. The latter of these forces, however, is beyond all com-

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parison greatest at or near the Moon's surface. But as we recede from the Moon, and approach to the Earth, this force decreases, while the other augments; and at one point between the two planets, these forces are exactly equal—so that a heavy body, placed there, must remain at reft. If, therefore, a body is projected from the Moon towards the Earth, with a force sufficient to carry it beyond this point of equal attraction, it must necesfarily fall on the Earth. Nor would it require a very great impulse to throw the body within the sphere of the Earth's superior attraction. Supposing the line of projection to be that which joins the centres of the two planets, and supposing them to remain at rest; it has been demonstrated, on the Newtonian estimation of the Moon's mass, that a force of projection moving the body 12,000 feet in a fecond, would entirely detach it from the Moon, and throw it upon the Earth. estimate of the Moon's mass is, however, now admitted to be much greater than the truth; and upon M. De la Place's calculation, it has been shown that a force of little more than one half the above power would be fusicient to produce the effect. A projectile, then, moving from the Moon with a velocity about three times greater than that of a cannon ball, would infallibly reach the Earth; and there can be little doubt that such forces are exerted by volganoes during eruptions, as well as by the production of steam, from subterranean heat. We may easily imagine fuch cause of motion to exist in the Moon, as well as in the Earth. Indeed, several observations have rendered the existence of volcanoes there extremely probable. In the calculation just now referred to, we may remark, that no allowance is made for the relistance of any medium in the place where the motion is generated. In fact, we have every reason to believe, from optical confiderations, that the Moon has no atmosphere.

A body falling from the Moon upon the Earth, after being impelled by such a force as we have been describing, would not reach us in less than two days and a half. It would enter our atmosphere with a velocity of nearly 25,000 seet in a second; but the resistance of the air increasing with the velocity, would soon greatly reduce it, and render it uniform. We may remark, however, that all the accounts of fallen stones agree in attributing to the luminous bodies a rapid motion in the air, and the effects of a very considerable momentum to the fragments which reach the ground. The oblique direction in which they always fall, must tend greatly to diminish their penetrating power.

While we are investigating the circumstances that render this account of the matter highly probable, we ought not to omit one consideration.

confideration, which lies wholly in the opposite scale. The greater part of these singular bodies have first appeared in a high state of ignition; and it does not seem easy to conceive how their passage through so rare a sluid as the atmosphere could have generated any great degree of heat, with whatever rapidity they may have moved. Viewing as we do, the hypothetis of their lunar origin as by far the most probable in every other respect, we will acknowledge that this circumstance prevents us from adopting it with entire fatisfaction. And while we fee to many invincible objections to all the other theories which have been offered for the folution of the difficulty, we must admit that the supposition least liable to contradiction from the facts, is nevertheless sufficiently exceptionable, on a single ground, to warrant us in concluding with the philosophical remark of Vauquelin, Le parti le plus sage qui nous reste à prendre dans cet etat des choses, c'est d'avouer franchement, que nous ignorons entierement l'origine de ces pierres, et les causes qui ont pu les ' produire.'

If, however, a more extensive collection of accurate observations, and a greater variety of specimens, shall enable us to reconcile the discrepancy, and to push still farther our inquiries into the nature of the new substance, a knowledge of the internal structure of the Moon may be the splendid reward of our investigations. And, while the labours of the Astronomer and Optician are introducing new worlds to our notice, Chemistry may, during the ninteenth century, as wonderfully augment our acquaintance with their productions and arrangement, as she has already, within a much shorter period, enlarged our ideas of the

planet which we inhabit.

A work on the most prosound of the mathematical sciences, from the pen of a lady, can hardly fail to be an object of attention. It has indeed been so among the learned on the control D d 3

ART. XIII. Analytical Inflitations: In Four Books. Originally written in Italian by Donna Maria Gaetana Agnesi, Professor of the Mathematicks and Philosophy in the University of Bologna. Translated into English by the late Rev. John Colson, M. A. F. R. S. and Lucasian Professor of the Mathematicks in the University of Cambridge. Now first printed from the Translator's Manuscript, under the inspection of the Rev. John Hellins, B. D. F. R. S. and Vicar of Potter's-Pury in Northamptonshire. 2 Vol. 4to. London. 1801. Sold by Wingrave.

tinent for many years, and the author of it confidered as one who, without taking into account the indulgence due to her fex, is entitled to rank high among the mathematicians of the 18th century. We regret, however, that of the history of a person so extremely interesting, but sew particulars have yet come to our knowledge. The editor of the translation before us has collected some anecdotes; one of which, extracted from the President de Brosses's letters from Italy, is truly singular, and, though of undoubted authenticity, calls to mind the marvellous stories which are told of PICA DI MIRANDOLA, and the Admirable CREIGHTON.

De Brosses, in passing through Milan (about the year 1740), was carried to a converzatione on purpose to meet Signora Agnesia, whom he describes as a young lady about 18 or 20, who, though the could hardly be called handsome, had a fine complexion, with

an air of great simplicity, softness, and female delicacy,

There were, 'fays he, 'about thirty people in the room, many of them from different countries in Europe, who formed a circle round the lady and a little fifter who accompanied her. The count Belloni addreffed her in a fine Latin speech, with the formality of a college declamation. She answered with great readiness and ability in the same language; and they then entered into a disputation (still in Latin) on the origin of fountains, and on the causes of the ebbing and slowing which is observed in some of them like the tides in the sea. She spoke on this subject like an angel, and I never heard it treated in a manner that gave me more satisfaction.

The Count then defired me to enter with her on the discussion of any other subject I chose, provided that it was connected with mathematicks or natural philosophy. After making the best apology I could to the lady for my want of sufficient skill in the Latin language to make me worthy of conversing in it with her, we entered, first, on the manner in which the impressions made on the senses by corporeal objects are communicated to the brain or general sensorium; and afterwards on the propagation of light, and the prismatic colours. Another of the company then discoursed with her on the transparency of bodies, and on curvilinear figures in geometry, of which last I did not understand a word.

She spoke wonderfully well on all these subjects, though she could not have been prepared before hand, any more than we were. She is much attached to the philosophy of Newton; and it is marvellous to see a person of her age so conversant with such abstruse subjects. Yet, however much I was surprised at the extent and depth of her knowledge, I was still more amazed to hear her speak Latin with such purity, case and accuracy, that I do not recollect any book in modern Latin written in so classical a style as that in which she pronounced these discourses. The conversation afterwards became general, every one speaking in the language of his own country, and she answering in the same language; for her knowledge of languages is prodigious. She told ine that she was sorry

forry that the conversation of this visit had taken so much the formal turn of an academical disputation, and that she very much disliked speaking on such subjects in numerous companies, where, for one that was amused, twenty were probably tired to death.—I was sorry to hear that she intended to go into a convent and take the veil, not from want of fortune, for she is rich, but from a religious and devout turn of mind, which disposes her to shun the pleasures and vanities of the world.

After her work of the Instituzioni Analytiche was published, she was made professor of mathematics and philosophy in the University of Bologna. But neither the admiration she everywhere met with, nor the entreaties of her friends, could prevent her from executing the resolution she had taken of secluding herself from the world. After the death of her father, she retired to a convent of blue nuns, remarkable for the austerity of its rule, and ended her days in one of those retreats, in which mistaken piety has so often buried the charms and accomplishments, the virtues and the talents which might have adorned and improved society. The fate of Pascal and Agnesi will remain a melancholy proof, that the most splendid abilities, and the highest attainments in literature and science, cannot always defend the mind against the inroads of superstition and fanaticism.

Mr Hellins, the editor of the present work, has quoted Montucla's encomium on this extraordinary woman, to which we must beg leave to add another of still higher authority, that of her countryman Frisi, who has excelled so much both in pure and mixt mathematics. 'Domina Maria Cajetana Agnesia Analyticas Institutiones edidit anno 1748, opus nitidissimum, ingeniosissimum, et certe maximum quod adhuc ex fæmine alicujus calamo prodierit.' Frisii Opera, Præs. tom. 1mus. A French mathematician of great eminence, M. Bossut, has also bestowed on the Instituzioni Analytiche the most unequivocal praise, by translating the advolume of it into French, and inserting it in his course of mathematicks, professedly as the best treatise he could furnish on the elements of the differential and integral calculus.

It is to the liberal and enlightened patronage of Baron Maseres, to which the mathematical sciences are already under so high obligations, that we are indebted for the present translation of this work into English. The translation was made many years ago by the late Professor Colson, the ingenious commentator on the Fluxions of Newton. Baron Maseres, who in his youth had known Colson, and had reason to suppose from his conversation,

In the edition of de Brosses which we have seen, the lady's name is spelt, throughout, Agnery. The Monthly Review, from which Mr Hellins made his extract, seems to have corrected this error very malapropos by spelling it Anglese.

that he had written a treatife on the higher geometry, as an addition to the commentary just mentioned, was desirous of discovering this manuscript, and of giving it to the world. In his search he found, not the work he looked for, but the translation just mentioned; and after removing some pecuniary difficulties, which, without such generous assistance, would probably have for ever withheld it from the world, he obtained a copy of it, and put it into the hands of Mr Hellins, who undertook to become the editor.

In reviewing a book that comes before the public with fo many extrinsic circumstances in its favour, an effort is required to preferve impartiality, and particularly, in the present case, to prevent our admiration of the author from influencing our opinion of her work. We have perused it accordingly, keeping this caution continually in view; and the favourable judgement we have nevertheless to report, is formed, we flatter ourselves, entirely on the intrinsic merit of the book.

The Analytical Institutions are divided into four books. The first contains the analysis of finite quantities, and occupies the whole of the first volume. The remaining three make up the 2d volume, and treat of the analysis of infinitely small quantities. Each of these books is divided into sections; and a running margin renders the whole very convenient to peruse and to consult.

The First book begins, of course, with the ordinary rules of algebra, the folution of fimple equations, &c.; and in this most elementary part we do not perceive any peculiar excellence, except the uncommon clearness with which every part of the Institutions is written. It is in treating of variable magnitudes, or of the application of algebra to geometry, that the peculiar elegance of Donna Agneli's analysis first begins to appear. The subject of Loci, in itself so beautiful and interesting a part of geometry, could not fail to attract the attention of one who purfued that science merely for the love of it. The examples which she gives are well chosen; the analysis of them is always ingenious, and conveys much instruction concerning the methods and principles of investigation. This part of the work is indeed eminently calculated to improve the student of geometry; and though other treatifes on the same subject, more complete and systematic, have appeared fince this was written, we do not believe that their exifts, at the prefent moment, any one so well adapted to communicate folid and practical instruction in this branch of analysis, or so likely to sharpen the invention of a beginner, and to make him well acquainted with the resources of his art.

These observations are also applicable to the construction of determinate problems, by the intersection of Luci, in which great address

address and ingenuity are often displayed. Signora Agnesi appears to prefer the solution of equations by such constructions to the solutions, which, like Cardan's rule, are purely algebraical. The universality of the former method is the reason she hints for that preference; and to one who studied this branch of mathematicks, merely for its own sake, such an argument might seem unanswerable, and is evidently the same which influenced the Greek geometers in the attempts they made to resolve problems of the higher orders. It will, nevertheless, be recognized as an erroneous opinion, by those who consider every individual part of the mathematicks as a step to something beyond it, and who, of consequence, regard those solutions as most valuable, which directly express the magnitude of the things sought, in terms of the things given.

The folutions, however, that are delivered in these Institutions, by the construction of Loci, possess an uncommon degree of elegance; and they give such a samiliarity with the management of equations, and with the different ways of combining them, that they well deserve the attention of the student. In the books which treat of the analysis of Institutes, the same elegance and perspi-

cuity prevail.

The Second book begins with laying down feven theorems, relative to the different orders of Infinitefimals, and explaining when a quantity is fo small, that it may be rejected in respect of another which is itself evanescent. These propositions may appear exceptionable, in point of language, to the rigorifts in geometry; but they are nevertheless founded on good principles, and furnish rules for the comparison of evanescent quantities, which will prove fafe guides in investigation. The demonstrations appear to us to be perfectly found (if the word infinite be taken in its true fense, as denoting merely the absence of any limit), with the exception, perhaps, of the first theorem, which (as is not a little curious to remark) is liable to the same objection that has been made to the first lemma of Newton's Principia. In both instances, also, the error is rather apparent than real. Signora Agnesi and Madame Chastellet are probably the only women, who, either in the excellences or the defects of their writings, may refer to Newton, as a standard of comparison.

These theorems are followed by the differential calculus, or the direct method of fluxions, the language and notation of which last are adopted by the translator throughout the whole. The general rules for differentiating are very distinctly explained; and the application of them to drawing tangents, to determining maxima and minima, the radius of curvature, &c. is pursued

through a variety of examples.

The Third book treats of the integral calculus, or the finding of fluents. The general methods of integrating formulas, containing one variable quantity, are first laid down, whether the integrals be expressed in algebraic terms, by logarithms, or circular arches.

The principles thus established are next applied to the quadrature and rectifications of curves, the complanation of surfaces, &c. &c. Here, as in every part of the work, the examples are chosen with uncommon felicity; and, in the treatment of them, there is often displayed not only much skill, but a great degree of originality and invention.

The Fourth book treats of the integration of fluxional equations involving two variable quantities. It is here that greatest room is given for the exercise of ingenuity and invention, and that the

author displays most her skill in analytical investigation.

The methods laid down for performing such integrations are superior, we believe, to any other known at the time when this book was written, and to any that have been yet given by an English author. The method of integrating the equations called homogeneous, by introducing a new variable quantity, and making $y = \kappa z$, is very fully explained in the Analytical Institutions (Book 4. sect. 3.), and we believe is not yet to be met with (at least in a general form) in any of our English systems. The equation

mentioned by Mr Hellins in his advertisement, $\frac{\dot{x}}{x} + \frac{\dot{y}}{y} = \frac{x^m \dot{x}}{a y^n}$, is

another instance of the same kind, as this equation was pronounced, by so expert an analyst as Thomas Simpson, to admit of integration (by the invention of a multiplier) only in one case, viz. when n=1, whereas Agnesi integrates it generally for all values of m and n. Indeed, the whole of the first section, where she treats of the integrating of equations by multipliers, is extremely valuable, as she has always been careful to explain the views which guided her to the discovery of the multipliers actually employed.

Though, in reviewing this work, we labour under the fame difadvantage that the editor did in publishing it, that of not having the original before us, we cannot help thinking that, in one passage of the fourth book, an error has been committed by the

translator, which has directly reversed the sense.

The passage we mean is at § 14. Sect. 2. where it is said, But, however, the method of substitutions is nevertheless universal,' (that is, the method of separating the variable quantities in a differential equation by the introduction of a new variable quantity), ' the greatest difficulty of which is, that it is often very hard to know what substitutions ought to be made, that we may not work by chance, and bestow much labour unsuccessfully.'

fuccessfully.' Now, the method which Signora Agnesi is here speaking of is not universal, or, at least, it has never been found fo, even in the hands of the most skilful and experienced mathematicians; and it does not appear, either from what goes before this fentence, or from what follows after, that she herself confidered it as of general application. Still, however, fome doubt is left, whether the error is in the original or the translation; but this doubt is removed, and the fault thrown entirely on the latter, by turning to Bossut's edition already mentioned. The pasfage, as given there, runs thus: 'Mais outre que la methode des substitutions n'est pas universelle, la grande difficulté qu'on rencontre en l'employant, c'est la peine & presque l'impossibilité qu'il y a de savoir la substitution qu'il saudroit faire, pour ne pas opérer au hafard, et pour eviter beaucoup des tentatives inutiles. The affertion here is directly the contrary of that in Colfon's translation; and as it is agreeable to the truth, and conformable to the context, it must be received as the genuine interpretation, at least till we can have an opportunity of comparing the passage with the original Italian.

Were we fure that this error, which is an important one, had not escaped Colson from mere inattention, it would set the mathematical knowledge of the Milanese lady considerably above

that of the Lucafian Professor.

To the English reader this fourth book must indeed be regarded as a great acquisition. In the two former divisions of the calculus, we possess books of great merit, that are in the hands of every mathematician; fuch, for inflance, as the Harmonia Menfurarum, Maclaurin's and Simpson's Fluxions, with one or two more. But, concerning the integrating of equations, where all the variables are mixt together, we possess no work of much consideration, though this is the part of the calculus to which we must look for almost all the new and important discoveries that remain to be made, either in pure, or in the mixt mathematics. Simpson, our best elementary writer, treats of this subject very imperfectly, as it were by accident, and to no extent. The later books on Fluxions, in our language, go no further than Simpson, and are many of them but indifferent abridgements of his valuable work. Sir Isaac Newton, indeed, who could so well judge of the relative importance of objects, even before he had leifure to make a full examination of them, treats of fluxional equations as a most important branch of the new calculus; yet he chiefly teaches how to integrate those equations by approximation, and has perhaps too much overlooked the methods that lead to perfect and ex-The methods followed by Donna Agnesi are of this latter kind, and were, no doubt, the part of her work

work which struck Colson the most, and gave rise to his very spirited resolution of learning a new language at an advanced period of life, that he might make himself perfectly master of them. Had this translation been published immediately after it was executed, there can be little doubt that it would have materially contributed to accelerate the progress of the mathematical sciences in England. Even the publication of it at present must be conducive to that end; and the Analytical Institutions of Agnesi will serve as the best introduction to the works of Euler, and the other mathematicians of the Continent, on whose writings we, in this country, have bestowed so much less attention than they deferve.

It is true, that, having been written more than fifty years ago, during which time many branches of analysis have been greatly improved, the work before us cannot but be impersedt in some things, when compared with more modern productions. The arithmetic of sines and cosines, or the application of algebra to trigonometry, was not known to Agnesi; for this new algorithm made its first appearance (or nearly its first) in the introduction to the Analysis of Infinites of Euler, and was published at Lausanne in the same year that the Analytical Institutions appeared in

Italy.

So also the integrating of differential equations has been greatly improved during the same period, both by Euler and others; and particularly, the criterion for determining whether such equations are integrable or not, has been discovered since the time of Signora Agnesi. This criterion is added to her work by Bossut, in his edition of it mentioned above; and the English editor would have done a great favour to his readers, if, in this instance, he had followed the example of the French geometer, with which, however, we are not sure that he was acquainted. The favour done to the public would have been the greater, that we have not, in English, any book in which this most useful rule is delivered. Mr Hellins, indeed, proposes to make some additions in a future publication; and we may perhaps hope to find the criterion of integrability in that number.

As the work now before us feems to be so well adapted to the common use of students in the mathematicks, we regret that it was not rather given to the world as an octavo, than in the more expensive form in which it now appears. In a new edition this

will probably be corrected.

though we cannot but commend the diligence and skill with the Mr Hellins has discharged the duty of an editor, we must ay, that one paper, which he has subjoined to the Analytical Institutions, has a little excited our surprise. This is a fragment

of Colson's, containing some mathematical questions, thrown into the form of a dialogue, between a master and his scholar. The questions themselves are nowise remarkable, and have little in them either to praise or to blame. But to convert the enunciation of a mathematical problem into a dialogue, and to think that by so puerile a device any good purpose can be served, as to the understanding of the question, or the discovery of the solution, appears to us highly absurd. It is a conceit that might be amusing to boys, who wanted to play at schoolmasters, as they term it; but we should hardly have expected to meet with it in a grave treatise of geometry, or as an addition worthy of being made to a work of such merit, as that which is now before us.

It is true, that Colson himself has added something of the same kind to his commentary on Newton, where it is, if possible, more out of its place than in the present instance. There is more apology, however, for an author being partial to his own conceits, than sor others approving of them. For our part, as we have great respect for Colson's science, but not much for his taste, we should be glad to see this and some other things left out of his commentary; and we cannot but hope, that the fine landscape, with the Greek motto at the bottom of it, inserted in the body of that work, as well as the fragment we are now speaking of, may hereafter be expunged, for ever, by the hand of some friendly editor.

The letter of Philalethes Cantabrigiensis to the Publisher of the Gentleman's Magazine, is another addition that we think might have been very well dispensed with. Not that we object at all to the quotation from the Preface of the Scriptores Logarithmici, or to the praise so justly bestowed on the editor of that valuable collection; but because we think that declamations against the vice and folly of the age, are more closely connected almost with any Subject, than with the abstract speculations of geometry. It is true, the author tries to establish such a connexion, when he calls' upon ' those noblemen and gentlemen who of late have made fo conspicuous a figure in Westminster-Hall, and on all who are wasting their time and money in the seduction of the wives and daughters of their friends,' to exchange these amusements for the konour of becoming such men as Napier, Bacon, or Newton; and, instead of squandering away thousands on courtezans, to lay out a few hundreds in printing books of science and philo-

We must say, however, that we do not believe that much is to be hoped for from this solemn exhortation; and we fear that the gentlemen to whom the letter-writer addresses himself, will neither neither take the trouble to difpute his principles, nor to follow his practice. But Philalethes Cantabrigienss is not one to be deterted by ordinary distinculties; there could hardly be more unpromising materials for making mathematicians and philosophers of, than those he has taken in hand. He begins his reformation precisely at the point where greatest resistance might be expected; and it is certainly true, that, in this instance, he has taken the bull by the horns.

But whatever opinion be entertained of the appendages which good intention, rather than good tafte, has introduced into these volumes, the work itself, we believe, will unite all suffrages in its favour; and Baron Maseres may reflect with pleasure on having made known to his countrymen an author so deserving of their attention. The mathematical world is already sensible of the favours it has received from his disinterested love of science, and has now an additional kindness to acknowledge.

We cannot take leave of a work that does so much honour to female genius, without carnestly recommending the perusal of it to those who believe that great talents are bestowed by nature exclusively on men, and who allege that women, even in their highest attainments, are to be compared only to grown children, and have, in no instance, given proofs of original and inventive powers, of a capacity for patient research, or for prosound investigation. Let those who hold these opinions endeavour to follow the author of the Analytical Institutions through the long series of demonstrations, which she has contrived with so much skill, and explained with such elegance and perspicuity: If they are able to do so, and to compare her work with others of the same kind, they will probably retract their former opinions, and acknowledge that, in one instance at least, intellectual powers of the highest order have been lodged in the breast of a woman.

At fi gelidus obstiterit circum pracordia sanguis;
and if they are unable to attend this illustrious female in her scientific excursions; of course, they will not see the reasons for admiring her genius that others do; but they may at least learn to think modeltly of their own.

ART. XIV. Récherches et Expériences Médicales et Chimiques sur le Diabéte Sucré, ou la Phthisurie Sucrée. Lues à l'Institut National, par les CC. Nicolas, Associé de l'Institut National, Professeur de Chimie aux Ecoles Centrales du Calvados: et Vistor Gueudeville, Docteur en Médicine à Caen. 870. à Paris. 1803.

THE attention of physicians has of late years been particularly directed to that very singular disease, Diabetes Mellitus, which is the subject of this memoir. The formation of large quantities

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of sugar in the animal body, is in itself so curious a circumstance, that not only medical men, but several distinguished chemists have engaged in inquiries concerning its nature and its origin.

Much was expected from fuch a cooperation.

From the application of the principles of modern chemistry to medical science, many useful and important discoveries were anticipated; and the phenomena of Diabetes Mellitus have been often referred to as the best proof of the reasonableness of such expectations. Some persons were so enthusiastic as to suppose, that not only the causes of all diseases would be detected, but that the cure of those hitherto deemed almost incurable would be accomplished; and that the mode of action of those remedies. which long experience has fanctioned, might be readily explained. But the newly-discovered gases have not succeeded in curing phthisis pulmonalis; the supply of oxygen alone will not remove fyphilis; and deoxygenating the fystem has failed to cure diabetes. Disappointment and regret have succeeded to the most consident hopes; because the discoverers in the very interesting path of chemical physiology have overrated the value of their exertions, and, without a previous knowledge of a fufficient number of facts, too hastily formed some general conclusion. This seems to have been the great fault of Dr Rollo's publication, in which it was confidently afferted, not only that the causes of diabetes were discovered, but that a new and successful mode of cure was found out. It is now feveral years fince Dr Rollo first published his Cases; and his opinions and practice must be confidered as having undergone that test of truth which is afforded by liberal discussion and extensive experience. *fubiect, however, appears new to the French phylicians; and they speak in the same consident tone about the causes and cure of diabetes, as was once common in this country, but which has lately been confiderably abated.

Instead of the term diabete sucré, Messer Nicolas and Gueudeville have substituted phthisurie sucrée, which they consider as more expressive, and more analogous to their definition of the disease. But as no good reasons are alleged in support of the alteration, we shall continue to employ the nosological phrase diabetes mellitus, which may now be considered as established by

custom and authority.

In the first part of their memoir, these authors profess to give the literary and natural history of diabetes, and to detail all the knowledge which physicians in former ages had acquired concerning it. This historical sketch, however, is extremely superficial, and in many respects incorrect. These writers do not seem to have directed their reading to any good purpose; they

have

have overlooked fources of correct and valuable information, and they have perverted others, which have no relation to the subject. To justify this remark, we may just notice, that they have quoted Hippocrates as the author of an observation on diabetes, though it is well known to all those who have consulted the works of that distinguished observer, that he has taken no notice of this disease. And, in another part of their essay, they have introduced feveral quotations from a dispute between Riolan and Bartholin; because, in this controversy about the termination of lymphatic veffels, they pretend to have discovered the first dawn of light which was thrown on the nature of diabetes. The French physicians seem to be very jealous of the reputation which our countryman Dr Rollo has acquired by his publication; and the chief object of their laborious research, is to point out to the world, that what Dr Rollo has faid had been often faid before. This, we believe, no one will feel disposed to deny; but we cannot think with our authors, that Dr Rollo was guilty of any great prefumption in publishing his book, without once referring to the dispute between two doughty knights of the scalpel, especially as the point in question was utterly foreign to his subject. We must confess that we have sometimes been amused, and sometimes disgusted, with the vanity and ignorance displayed throughout this memoir, in quoting and referring to the works both of the ancients and moderns. But experience has taught us how to estimate this affectation of learning, which the authority and example of some Continental writers seem calculated to encourage. If Meffrs Nicolas and Gueudeville had contented themselves with consulting Plouquet's Bibliotheca Medicopractica, or with copying from a very elaborate historical sketch of diabetes, * published in this country a few years ago, their pages might have been graced with a longer and more accurate list of references, and their readers would have received more fatisfactory information from their learned inquiries.

After some general remarks, we find sour cases of diabetes detailed. The first of these was a poor man, advanced in life, who had been accustomed to hard labour and bad sood. The second was an old maid, who had suffered from many complaints peculiar to her sex. An exhausted debauchee was the subject of the third history. And an elderly man, who died from sever and emaciation, after the disease had continued four years, was the sought. All these patients were of the sanguine temperament; their complaints seem to have originated from very different causes:

^{*} Vide a case of diabetes, with an historical sketch of that distale, by Thomas Girdlestone, M. D. 8vo. Yarmouth. 1799.

causes; and all of them are described as having the symptoms, mentioned by Areteus. Of these cases, the second and the third appear very inaccurately drawn up, if not composed in the closet. They resemble cases of symptomatic diabetes, recorded by Sydenham, Boerhaave, Van Swieten, Cullen, and other systematic writers, which have occurred after other diseases. The age and condition of the patients, the symptoms which existed, and, above all, the very speedy removal of them by tonic medicines, seem to corroborate such an idea. The great surplus of urine discharged, in one case it is said more than two thirds, and, in another, double the quantity of siquid ingesta, would make us feel inclined to distrust the history, especially when we are told that a complete cure was effected in a short time.

Aretaus is the only author who has recorded the first symptoms of diabetes. His account however is very suspicious, from his own confession that he had seen very sew cases, and from the manner in which he relates the symptoms. For if we admit that he described the disease as he saw it, and wrote from obfervation, not from the reports of others, it impeaches his acknowledged accuracy; fince nothing but ischuria could occasion many of the fymptoms and feelings which he attributes to diabetes. We must confess that we are strongly disposed to think, with Dr Lubbock, that the Cappadocian, in his history of this complaint, has given way to the impulse of aftonishment, and written more from fancy than from actual observation. When he details fymptoms, and mentions phenomena, contrary to univerfal experience, and inconfiftent with all the known laws of the animal economy, we furely have a right to distrust his account altogether, and confider it, not as authentic, but fabulous.

Hence we were not a little surprised to find Messer Nicolas and Gueudeville making a division of this disorder into three distinct stages, and detailing, from Areteus, the symptoms peculiar to each. Such is the apparent regularity of the animal sunctions in the beginning, nay, in some instances, throughout the whole course of this complaint, that it is often extremely difficult to ascertain the period of its first attack. Neither thirst, nor increased appetite, nor copious flow of urine, are sufficient to induce people to complain, till more urgent symptoms arise. Nothing but very limited experience, or excessive enthusiasm for antique relics, could have induced these authors to quote such passages from the writings of Areteus, or to follow, in this instance, such an example; for though Don Quincte believed, even Sancho sometimes doubted.

The following summary will be found to contain the general result of the speculations and experiments detailed in this essay. We shall quote these propositions in the words of their authors, that we may not incur any censure from mistatement of those particular points on which we may feel disposed to differ from them.

i. La phthifurie est une consomption entretenue par une déviation spalmodique et continuelle des sucs nutritifs non animalisés, sur l'organe

primaire.

* 2. Cette affection parôit particulièrement aux temperament muscu-

5. Son flège est place dans l'appareil digestif.

4. Les autres parties ne sont affectées que secondairement.

5. Les sucs gastriques, paneréatiques, biliaires, sont altérés par la présence des sucs nutritss non animalisés.

6 6. Toutes les autres fecrétions et excrétions étant suspendues, P

organe trinaire y fupplie par l'excès de les évacuations.

7. L'analyse chimique a prouvé que ces urines ne contiennent pas point d'urés, d'acide urique, et benzoique, et que les sels phosphoriques sont en très petite quantité.

8. Ces urines passent à la fermentation vineuse et acéteuse, on en retire un alcool d'une odeur désagréable: ensin, un sucre cristallisé dont

la nature n'est pas encore connue.

9. Le sang est très-séreux, les sels ammoniacaux et phosphoriques très-rares.

4 10. La présence du sucre, la rareté des sels excrémentitiels, l'absence des l'urée, dont le retour n' a lieu qu' après la disparution de la matière sucrée, démontrent que cette dérnière depend de la non animalisation des

fuce nutritife, causée par le defaut d'azote.

Deux indications le présentent à la médecine: 1. Remédier à l'état fpasmodique: 2. Rendre au malade les principes d'animalisation. Pour arriver à ce but, este doit chercher les alimens et les rémèdes parmi les substances qui contiennent l'azote et les sels phosphoriques. La saveur sucrée ne dispardit qu' après la guerison des autres symptomes. Le retour de l'urée et des sels urineux est la preuve d'une cure complète. Ensin, le phthisurique étant sujet à des réchutes, l'usage des médicamens indiqués doit encore être prolongé quelque temps après la guérison du malade, ' p. 99.

In raking a general view of this disease, we are first struck with its more frequent occurrence in modern times, than in the earlier ages. The different modes of living, the imaginary change of constitution, or the more general use of wine and spirituous siquers, do not afford a satisfactory explanation of this circumstance. After all, perhaps disbetes does not occur more frequently now, than formerly; but is better distinguished by medical practitioners. One reason why it was so feldom met with by the older

older physicians may be, that the strongly marked cases of it came generally under the care of those ignorant and impudent quacks who pretended to cure all diseases by looking at the urine. Such quick-fighted mortals were at one time very numerous, to the difgrace of the Legislature and the human understanding. The race is not yet wholly extinct in this country, much tels on the Continent, though urofcopy has, in some meafure, given way to cranioscopy, metallic tractors, and other such abfurdities! With regard to the first conclusion which Messis Nicolas and Gueudeville have made, that this difease depends upon a particular determination of imperfectly affimilated fluids to the kidneys, we cannot avoid remarking, that this is the general opinion among all those who have attempted to give any explanation. Galen, in one part of his works (de Crifibus, lib. I. cap. 3.), confiders diabetes, like the lientery, as a necrofis or death of two important functions, assimilation and absorption; and this opinion has been frequently brought forward. Each writer has varied his mode of expression, and imagined himself creating a new theory, when he was only indulging his fancy in decorating an old one. What reason our authors have for suppoling the existence of spasm, we are totally at a loss to conjecture. What is spass? Is there any symptom of this disorder which partakes of a spasmodic nature? Induction tells us that there is not; found reasoning forbids us to admit any such hypothetical conclusion. But the previous question concerning the existence of spasm seems never to have occurred to these gentlemen. No obstacle of that kind interrupts them. They go on explaining every symptom, with the greatest plausibility. They tell us,

with the azote in the large intestines; that hydrogen increases in quantity in passing from the stomach to the small intestines, and then diminishes in the large ones; and that carbonic acid gas, which is most abundant in the stomach, unites with these gases, and all are then mixed with the chyle. If the body becomes weakened by hamorrhagies, or protracted diseases, the blood is more serous, and does not surnish azote in sufficient quantity for the animalization of the food: hence, the oxygen, hydrogen, and carbon, which are always to be found in the stomach and intestines, unite, and form sugar. The derangement of all the suctions arises from the want of azote, the principle of animalization. The chyle is not allowed to remain a sufficient time to be animalized, but is tapidly absorbed, to support the system; and this absorption, nature is never able

to accomplish without a spalmodic effort. ' p. 39,

Now, can these authors prove, in any single instance, that what they have said is true? Have they examined the first data, the fundamental facts on which all the reasoning depends? We will venture to say they have not. They have taken these and

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many

many other questions for granted, in the whole course of their speculations; and till they can show that azote is deficient in diabetic patients, we must regard their reasoning, from such vague and uncertain premises, as false. Besides, referring the proximate cause of this disease to a deficiency of azote, is only substituting quid pro quo; it is nothing more nor less than a repetition of Dr Rollo's hypothetical conjecture, that all the phenomena of the disease arose from an hyperoxygenation of the system. Of this, there are no proofs whatever: all appearances are against such a supposition. If oxygen was in excessive quantity, or, what is the same thing, if the proportion of azote was lessened, from what we know of the effects of these substances, we should obferve some remarkable changes produced on the nervous system, and on the irritability of the muscular fibre, which do not happen. The reasons assigned for the kidneys receiving so large a quantity of the half-formed chyle, appear to display as much originality of thought, as profound knowledge of anatomy. It is faid, p. 41. that the emulgent arteries and kidneys receive the greatest part of the impertectly assimilated matter, because they are situated near the centre of union, (près du foyer spassinedique), and because they have such extensive communications by means of their lymphatic veffels!

Respecting the accuracy of the second position, that diabeter is peculiar to persons of the sanguine temperament, we must also be permitted to express our doubts. The sour cases which are mentioned, cannot be deemed sufficient to warrant such a general conclusion. Although this discase may be more frequent among persons of storid appearance and sull habit, yet it is not peculiar to them; for we have seen men with dark complexion and black hair labouring under it; and some similar cases are recorded. Nor is it confined to strong muscular subjects, or to the latter periods of life, or to constitutions impaired by excessive bodily and mental exertion, as stated in several parts

of this effay.

The three next paragraphs of the summary already quoted, require a more sull and particular investigation, as they include the outlines of the prevailing theory of the present day. It is not a new opinion, to refer diabetes to some primary affection of the stomach. The same notion was entertained by many authors of the last century. Within these sew years, this theory, if it deserves such an appellation, has been brought forward with some ornaments borrowed from modern pneumatic chemistry, and has attracted considerable attention. The merit of Dr Rollo's publication has always appeared to us to consist, not in any novelty and originality of the theory of diabetes, nor in the reasoning by which that theory was attempted to be supported, but in the fair

fair and candid statement of symptoms; and the result of the practice in removing them. It would be improper, at this time, to enter upon a particular discussion of Dr Rollo's opinions. We shall therefore content ourselves with briefly noticing the leading points of his theory, because it corresponds with that now under consideration.

Dr Rollo alleges, that diabetes consists ' in an increased morbid action of the stomach, with too great a secretion, and an alteration in the quality of the gastic sluid, producing saccharine matter, by a decomposition of the vegetable substances taken in with the sood, which remains unchanged.' p. 387. (Cases of Diabetes Mellitus, 2nd Edition.)

The arguments adduced in support of this opinion, are not very convincing. Indeed, unless the question be assumed, it is difficult to discover that the increased appetite and frequent cravings are more in proof of this opinion, than of the very opposite. As far as the stomach is concerned, the process of digestion feems regularly and rapidly performed; hence, that organ cannot be considered as primarily diseased. The symptoms first noticed by the patients, are not fuch as to lead us to suspect any morbid state of the stomach, and, in many instances, those mentioned by Dr Rollo, are wholy wanting. All writers feem to coincide in faying, that there is some morbid state of the stomach, some imperfect assimilation of the food taken in. But this is no explanation—it is only the expression of a fact—it is only faying that some impersection takes place in a process confessedly unknown: it does not lead us to the ultimate object of our inquiry, nor remove the difficulty in accounting for the phe-There is, according to Dr Rollo, a fugar-making process going on in the stomach; and, according to Messes Nicolas & Gueudeville, the fluids of the stomach, liver and pancreas, are changed by the presence of ill-formed chyle. These suppositions are perfectly gratuitous. If fugar is formed in the stomach, it must be from the alimentary matter undergoing the fermentative process; but the experiments of Spallanzani susticiently prove, that no fermentation takes place in healthy digeftion, and we have no marks of this process in diabetes. ing faccharine matter to be formed in the process of digestion, it must be contained in the blood; and numerous experiments have been made to detect it, but without success. Dr Dobson is the only one who found the ferum 'rather sweetish.' This must be confidered as accidental, especially as numerous recent trials have found the taste of the serum saline, and the other parts perfectly natural. It may be faid, that faccharine matter exists in the blood, so combined as to escape any tests employed to detect it. Eez Such

Such an objection cannot be obviated by reasoning: it must be lest to future discoveries. Those who attribute the primare cause of diabetes to a morbid state of the assimilating organs, look upon the kidneys merely as filters, defigned to separate and carry off the excrementitious part of the blood. But this is contradicted by a due attention to the glandular Aructure of these organs, their complex formation, and, above all, by substances being found in the urine, which have never been detected in the blood or any other part. Modern chemistry has shewn that the elements of fugar are contained in the chyle; but it is not fo fatisfactorily afcertained, that faccharine matter, already formed, exists in this fluid. The different secretions are so mutually dependent on each other, and so various and intricate are the seyeral processes through which they all pass, that it seems unfair to attribute to one process, what may be the result of several. Carbon, oxygen, and hydrogen, exist in sufficient abundance in the animal body; by their combination, they may be supposed readily to furnish that peculiar sweetness to the urine. Dr Lubbock has conjectured that the suppression of the perspiration which is very remarkable in this disease, may conduce to the combination of the elementary principles of fugar. This supposition is recommended by its ingenuity, but it requires to be determined by more accurate experiments. The same want of experiments, makes us feeptical with regard to the supposed altered state of the other fecretions of the body.

The next affertion to be examined, is, that the quantity of urine evacuated is in excess, in consequence of the suppression of the other excretions. Hitherto, there has been no cause pointed out, why the quantity of urine discharged, should exceed the liquid ingesta; and the reason now alleged is a very poor one. On this subject, we cannot help again referring to the very acute and ingenious observations of Dr Lubbeck, who first detected and pointed out a very popular error in the history of this discase *. In all those cases, where the quantity of liquid ingesta has been accurately measured and faithfully recorded, it has almost invariably been found to correspond with the quantity of urine discharged. Any little excess may, in general, be readily accounted for, by confidering the proportion of folid ingesta converted into a fluid state. In some instances, we know that the urine has appeared to exceed the quantity both of liquid and folid ingesta; but, in these cases, it has at length been discovered, that the patients were often guilty of irregularity in their diet, and that the account of their actions could not be depended

^{*} Vide Medical and Physical Journal, Vol. V.

pended upon. That the quantity of urine is in exact ratio to the fluids taken into the stomach, is a fact of considerable importance; and, if well established, of which there seems now-little doubt, it will at once set ande any frivolous and trifling discustion concerning the origin of the supposed superabundant The marvellous relations which are met with in old authors, may be placed on the same shelf with the histories of surpriling cures by the royal touch, and ' such forgotten things.' In making further inquiries on this subject, there is one source of fallacy to be guarded against, which deserves to be pointed If the medical attendant with to know, in any case, what relation the urine and the drink bear to each other, they request the patient to attend particularly to this circumstance, perhaps for twenty-four hours. In consequence of his attention being directed to the ingesta, he probably takes less both of solids and fluids; hence a disproportion appears, by no means usual, especially if the ingesta taken previous to the experiment be overlooked. In hospital practice, great caution is requisite in drawing any conclusion; so numerous are the sources of er-Tor.

The seventh and eighth articles of the summary are the most original, and, if sully established, the most important of the whole. From the analysis of diabetic urine, conducted with great attention, and the result of every experiment compared with healthy urine, Messirs Nicolas and Gueudeville have drawn the following inferences: 10, That diabetic urine contains none of that peculiar matter called urée, no uric or benzoic acids, and a very small quantity of phosphoric salts: 2dly, That it passes readily into a state to fermentation, and contains a large quantity of a peculiar faccharine matter, the nature of which is not yet rightly understood.

It is much to be regretted that our authors have omitted to mention, whether the urine they examined was from one diabetic patient only, or from feveral; because the usual ingredients of urine, and the relative proportion of them, vary confiderably in different perfons, and even in the same person, at different times. The result of these experiments seems to show, that uree was in very minute quantity, if not wholly deficient in diabetic urine. The presence of faccharine matter, and the very diluted state in which all the falts are found, when urine is fecreted in great abundance, renders it difficult to detect these substances by the usual tests. Hence, a small portion of urce might exist, sufficient to give that neculiar colour and unpleasant smell to alcohol, as was observed, without being so considerable as to be detected by crystallization and by the nitric acid. We are inclined to make this supposition, because Ee4

because the experiments which we have made, and, still more, the numerous and repeated trials made by feveral of our friends, authorife a very different conclusion. In all these experiments made on diabetic urine from different patients, and at different periods, urée has always been detected, and likewise all the substances common to healthy urine, only in less proportion. The fmall quantity of phosphoric falts may readily be accounted for, in confidering the quantity of fluids taken in and discharged. To question the accuracy of these experiments made by a Professor of chemistry and a learned physician, may be deemed bold and prefumptuous; but if the authority of great names be necessary to give countenance and credit to any affertion, we could adduce the testimony of a Professor of chemistry, and even of two Professors, in support of what has been just stated. At any rate, it is impossible to build a legitimate theory of diabetes on the deficiency of urée: 1st, because there are numerous instances of the urine containing urée along with faccharine matter; and, 2dly, because there is one species of the disease, where faccharine matter, as well as urée, are almost wholly deficient in the urine. happens unfortunately for this theory, that the urine in this complaint exists in such opposite states: fometimes it abounds with faccharine matter; at other times, this sweetness cannot be detected, while, at the same time, the affinity between these different states is so great, that they pass into each other suddenly, or by infenfible degrees. This variation in the tafte, colour, and fmell of urine, occurs very remarkably in the fame patient, when the fyltom is deranged by any febrile attack. In framing explanations of the proximate cause of diabetes, authors, in general, frem to have directed their attention folely to the faccharine qualities of the urine, and to have overlooked entirely that species in which the chemical qualities of the urine are quite appointe. The existence of diabetes insipidus is a fact which cannot be doubted. Now, the nature of this latter complaint, and the refult of numberless trials with animal diet, show that the qualities of the urine may be very little altered, its quantity reduced to the healthy standard, and yet the emaciation and dryness of the skin continue, and the patient fall a victim to the difease. Hence the axiom which is here laid down, that the return of the uree and photphoric and muriatic falts is a proof of the cure being accomplished, cannot be deemed of any great weight.

In conformity to their ideas of the causes of diabetes, Messis Nicolas and Gueudeville have proposed their method of cure to remove the spasmodic affection, and to afford the principle of minimalization to the system. The means employed to fulfil these indications, were not such as practitioners in this country would

place

place much confidence in. Animal diet, phosphate of soda, phosphoric acid in dozes of eight and ten drops, the watery extract of opium, musk, bark, ammonia, and frictions with lard and oily liniments, were the remedics employed in the four cases which are detailed; and in one case, a gentle bleeding preceded this course of treatment. What was formerly called, amongst us, deoxygenating the system, these writers term azotising, which feemed to bear the interpretation of killing the patients; but, to our great aftonishment, three out of the four are said to have been cured in a very short time! - Experience has shown, that the exclusive use of animal food is the best and quickest mode of relieving the most urgent symptoms of the disease; and, in some cases, a permanent cure has been effected by this regimen alone. But it would be an unprofitable task to enumerate the numerous and opposite remedies which have been at one time extolled, and then condemned. The uncertainty which prevails with regard to the causes, has left a wide field open to experiment in the cure; and it is to be feared, that much progress will not be made in the one, till our knowledge of the other has been greatly increafed. It is true, the pathology of diabetes has not been illustrated, as à priori might have been expected, by examining appearances after death. No decifive and characteristic morbid changes have been discovered, though there is no reason for regretting, with our authors, that so few cases of diffection are on record.

Before concluding this article, we ought not to omit mentioning, that frequent farcasms are cast on Dr Rollo in different parts of the present memoir, for not giving the merit of certain opinions and modes of practice to the original inventors. Thus, it is faid, that animal diet was employed by all the old physicians, while it is forgotten, that an exclusive employment of this diet was the only novelty in Dr Rollo's practice. He is accused of plagiarism in several other particulars. But let us hear these advocates for rendering honour unto those to whom honour is due, (or, as they describe themselves, admirateurs des anciens autant qu' apotres zélés des découvertes modernes, ' p. 33.), involving themselves in the very crime which they so severely condemn. p. 13. they affert, that Dr Rollo has founded his doctrine on pneumatic chemistry, for which Europe is indebted to France! Again, in p. 37. we are told, that Dr Rollo is indebted to Fourcroy for the notes which embellish his work; and the author of the' Systeme des connoissances chimiques,' is mentioned as the first person who pointed out the difference between sugar and gum, by experiments made on the germination of feeds. It is scarcely to be imagined, that neither of these gentlemen ever read more than than the three first chapters of Dr Rollo's publication, which they have criticised so severely; and yet it must be owing to such a cause, or something worse, that they have entirely omitted to refer to the valuable experiments of Mr Cruickshank. The name of this celebrated chemist is only mentioned once, and then quite unnecessarily. We have candour enough to impute this omission to its true cause; and can only say, that Messis Nicolas and Gueudeville have executed this part of their work in the true spirit and

genius of their countrymen.

It is not our intention to multiply objections, or to enlarge farther upon this subject. The general merit of this memoir cannot, upon the whole, be rated very high. It refembles a common-place book, in which most of the remarkable facts relating to diabetes are registered. This may serve to amuse a philosophical society, or to answer the ends of a theorist; but it is not enough for those engaged in practice, who examine strictly every new proposal, and think, as they ought, for themselves. These authors seem actuated by an excessive love of theory, and a disposition to grasp at general principles, without a previous knowledge of particular facts. This rash mode of generalizing is too frequently adopted in medical inquiries. It is the most fatal obstacle to all real improvement, and cannot be too much condemned. It is worse than a salse hypothesis, because it extends farther; and, by habituating the mind to mere terms, it may lead us to mistake new words for real knowledge.

When we first launched out into this immense volume, we had not cruized a great way beyond the Table of Contents, before we found ourselves totally out of our reckoning, and utterly unable to determine where we were going. We were obliged, therefore, to anchor in no very pleasant station, till we could ascertain the course which it would be proper for us to pursue, and the nature of the doubtful element into which we had ventured. The tile of this work is, 'The Progress of Maritime Discourses,' from which we concluded, with unwary precipitation, that it was a history of the successive events by which those regions of the globe, separated by the sea, first became known to one another. Thus far all was clearly determined, and intelligible, But the second

ART. XV. Progress of Maritime Discovery, from the earliest Period to the Close of the Eighteenth Century, forming an extensive System of Hydrography. By James Stanier Clarke, F. R. S. domestic Chaplain to the Prince, and Vicar of Preston. Vol. I. 4to. Cadell & Davies. 1803.

second clause of the title, ' forming an extensive System of Hydrography,' involved us in difficulties which the perufal of the whole work has not removed. In humble dependence on the authors of dictionaries, we had always understood by this term, a minute description of the seas, lakes, rivers, and other collections of waters which form the aqueous part of the globe, including all the information on these subjects which a pilot requires in the practice of navigation. Nor were we able to forefee how an extensive system of that species of knowledge could be given in a history of maritime discoveries. To have supposed that the author would exalt every fuccessive improvement on a fea-chart to the dignity of a maritime discovery, would have been doing him great injustice. For, instead of ennobling common events by the dignity of his language, we have often found him reducing, by the fame instrument, the greatest achievements of mankind to the level of ordinary occurrences. In these doubtful circumstances, we could not help entertaining some apprehensions for the glory of a work in which the interest and literature of the first commercial nation in Europe appeared to be equally concerned. Our fears have not been groundlefs. After promifing every thing, all remains unaccomplished; and in the following observations, we are afraid that the tone of censure will not be very frequently relieved by pleasing intervals of praife.

After a dedication to the Prince of Wales, in which he is reminded of his relationship to the Black Prince and the Duke of Clarence, we are presented with a Presace, in which, after a sketch of the contents of his work, we find an account of the rife and progress of the motives which led Mr Clarke to this great undertaking. Such of our readers as have not feen his Prospec-

tus, we beg leave to inform, in his own words, that

- the outline of the plan was projected under the auspices and approbation of Earl Spencer, who prefided at the Board of Admiralty: but that he did not then mention another patron, by whom the arrangement of the whole was formed, that zealous mariner Admiral John Willet Payne.

Under this eminent officer, my attention was first directed to naval literature. His ardent mind pointed out whatever of novelty or of utility had hitherto been neglected; and whilft his genius cast new light on the defiderata thus prefented, his conversation cheered my fatigues. and his enthusiasm prolonged my industry.

On my return from a cruize in the Impetueux, my first * efforts were submitted to the press, and favourably received. When I contemplated

^{*} Sermons on the Character and Professional Duties of Mariners: with the first, second, and third volumes of the Naval Chronicle.

templated the next object that offered, I trembled at its magnitude: My professional duties were increased; and I selt that I not only wanted the ability, but the leisure requisite to complete an undertaking so great as the progress of Maritime Discovery from the earliest period to the close of the eighteenth century. Whilst I hesitated, the importunity of friendship increased, and at last prevailed. It repeatedly urged, that a complete System of Hydrography was wanted by the literary world, and particularly by naval men; that it would prove an effential service to future navigators to have the principal discoveries of their predecessors connected and arranged; that a perusal of the numerous works relative to this subject, demanded rather the leisure of a recluse, than the agitated and interrupted day which the mariner constantly experiences. Pres. p. viii.

A long catalogue of patrons and affiftants, who lessend, by their suggestions and remarks, the labours which friendship had urged him to encounter, follows this information. Of these, seventeen in number, we would remark in particular the Reverend Mr Bowles, from whom the writer 'experienced attention—though only known to him by the courtesy of literature.' The list closes, in a very emphatic manner, with an acknowledgment of the great assistance he has 'invariably obtained from the liberality and bibliographic information of that truly respectable

and honest bookseller Mr Thomas Payne."

' To the first of these gentlemen, the author owes no ordinary obligations. He is indebted to him for a vast number of poetical mottoes, one of which, along with an elegant vignette from the antique, embellishes the commencement of almost every section in the volume. These vignettes, and a number of maps and engravings, might infure celebrity to any literary performance, if the delight of the eye could supersede the claims of the understanding, and atone for the ablence of the primary qualities of genius. Yet we cannot recollect that Herodotus, who first transmitted to posterity the exploits of the earliest and bravest nations of antiquity, without any model before him, but nature and found judgment; or Livy, who arranged the voluminous history of the greatest empire in the world; or Hume, who performed for Britain as a kingdom, what Mr Clarke owed to her as a maritime power; or Robertson, who embellished, with elegance, reason, and philofoply, the greatest naval discovery in the annals of time-cyer condescended to strengthen their claim to immortality by the borrowed affiftance of the pencil or the graver.

The author having referved Locke's catalogue of voyages and travels for the Appendix, enumerates in his Preface, with great bibliographical importance, the other compilers of collections. These are in number twenty-five, from Grynaeus to De la

Harpe.

• In all of these collections, though in Astley's least of any, Hydrography has been confidered in a fecondary, and frequently in a fubordinate point of view. The great objects of this branch of science, so interesting to a great commercial nation, and so important to its navigators, are dispersed through an infinity of volumes, and often error neoully give authorities which have feldom been cited; the claims of nations and individuals to the merit of their respective discoveries, are too faintly traced; the remarks of the navigator and traveller, united in the fame work, deftroy that connexion and arrangement each might separately possess; the differtations and remarks of nautical men have multiplied, until fome of the earliest and most valuable are nearly lost amidit the mass of information that exists; so that it appeared necesfary, at the close of the eighteenth century, to arrange and separate the flores which preceding ones had afforded; and thus to form a general fyshem of Hydrography, equally interesting to the navigator, the flatefman, the merchant, and to readers in general. P. xviii.

After having sketched the outline of his plan, our author informs us, that, 'notwithstanding the number of volumes marshalded in dreadful array' before him, he conceives it may be executed in about six, or at least seven thick quartos. The first of these is the volume before us, containing no less than 1019 pages, of which 230 contain an Introduction, called 'a Historical Memoir of Ancient Maritime Discoveries.' It reviews, in four sections, the earliest, the facred, the Grecian, and, last of all, the Carthaginian and Roman periods. The first book of the history follows in three chapters, each divided into two sections. It begins with what the author terms 'the commencement of the liberties of Europe,' an event placed by him in the year of God 1422; and ends with the discovery of the Cape of Good Hope by Da Gama;

May 20. 1498.

In reviewing the earliest periods of human affairs, the strength of a historian who writes for posterity, encounters a severe and decisive probation. As the facts are scanty and obscure, so the authors from whom they are gathered can neither communicate method, nor lend embellishment to his narrative. In ages long ufurped by fiction, over which truth furrendered her authority many centuries before the birth of history, we grant no ordinary honour to the hero who successfully revives her cause, and rears in those abandoned regions the standard of her ancient government. in proportion to the gratitude with which we regard the true recoverer of perished knowledge, is the disappointment excited by the 'e who impose on themselves and the world with imaginary pre-The antiquary, who sweeps from the earth, like a cobweb, all the remains of ancient history, may well be accused of a greater propensity to seepticism than to common sense. He who patronifes this work of destruction, merely to raise on its ruins the slimity edifice of his own imagination, forfeits the title of visionary, to gain a less honourable appellation. But he who believes implicitly in all that such theorists have afferted, and propagates the cheat after it is already notorious, merits a distinguished place in that empty paradife which Milton assigns to all that is false and transitory. This fentence is just, and amply deferved, when we consider the importance of historical research into those periods which comprehend the formation of kingdoms, the origin of useful discoveries, or any of those great revolutions

of affairs which concern the welfare of posterity.

The writer of this introductory inquiry is liable to these and similar charges, in no inconsiderable degree. His title, which is injudiciously chosen, consines him within limits of which he has selt the constraint, but transgressed as often as convenience required. It fixed him to ancient maritime discoveries as the sole object of his attention, without the liberty of digressing into the history of nations, further than was necessary to illustrate his plan. With that imbecility of judgement which distinguishes the weak from the able historian, he appears to have considered three related, but distinct topics, maritime discovery, navigation, and bydrography, as one and the same object. The mistake involves him in disorder and perplexity, which are only exceeded by his mode of illustration, rendering the introduction to the principal work a dreary entrance, in which we linger for the promised light, in a wilderness of obscurity.

The subject of the vignette which embellishes the first page of this dissertation, is a medal of the Emperor Philip, struck at Apamea in Phrygia. The reverse of the coin bears a figure of the Ark, with those of Noah and part of his family. Above their heads, is the dove holding the olive branch. The word NOE is inscribed on the side of the vessel. The reason of its appearance here, is an idle opinion that the memory of the Ark and Deluge was preserved in Apamea from the earliest age to the days of Philip the Elder. Not to mention the instrucce of Christianity in Phrygia at that period, nor the suspicion of forgery under which the medal labours, it is very fingular that the word Kibotus, the ancient name of the town, should be

reckoned sufficient authority for a story so improbable.

The author begins with a violent invective against the fancies of those who derive navigation from the nautilus; and against the Phrygian historian, Sauchoniathon, for afferting that the first cance was formed in his own country, of a tree accidentally hollowed by fire. Mr Clarke recals such visionaries to the true prototype of navigation, the Ark of Noan; and appraids them was excitably

the

unmercifully for configning the three-forked trident, " the infigurof the triads of God, into the hands of Neptune. With one dash of the pen, he annihilates the mythology of ancient Greece; and Bryant, the venerable patriarch of analysis, who has united all the mysteries of ancient fable in a sphinx of his own creation, appears upon the stage. The author, scarcely embarked on the tide of time, configns himfelf at once to the care of thefe three insallible pilots, Jacob Bryant, Mr Maurice, and Captain Wilford. He is not contented with borrowing their ideas only, but makes free with their words, through many long pages of grateful plagiarism. So mechanically is his little bark towed along by there first-rates of antiquarianism, that she follows, without any exertion but what is necessary to attach her to a new guide and conductor, when the course of the preceding one is verging to an end. For Mr Clarke trembles to hear the found of his own voice. I left the nervous language of Mr Bryant should be im-

paired by the interpolations of an inferior writer!' The eulogia of the heroes being finished, the historian enters on the state of aftronomy before the flood! The opinions of M. Bailli and Maurice, who ascribe to the antediluvians the Clepfydra pendulum and Mariners compais, are very respectfully enumerated. Then Jubal, and Jabal, and Tubal-Cain, who were the Apollos of Greece, the Crishna of India, &c. &c. &c. are introduced. Fire-arms, fays our fage historian, on the authority of Maurice, are shadowed out in the fiery darts of the deified Indian rajahs. He learns from the institutes of Menu, that the Hindoo nation was early engaged in distant commercial expeditions by fea4 and, from similar sources, that naval architecure was well known to the ancestors of Noah. Yet he wisely helitates, for a special reason, to join in opinion with the sorementioned authors concerning the magnet. He thinks that it was a gift of Noah to his posterity; that it assisted him, under Providence, to regain the happy Chaldean regions from which he had failed; but that, even supposing the magnet to be unknown, the long lives of the first race of men might probably have led them to the invention of so simple an instrument as the marine aftrolabe. The reason for differning from Bailli and Maurice is curious, as it points out the unhappy confequences of attempting to reason, in those who are unqualified by nature for the talk.

This (the invention of the compais) would argue a skill in science, among the antediluvians, sufficient to have counteracted or opposed the overwhelming chastisement of the Deluge; and it is rational to conjecture, that if mankind had then possessed a knowledge of the magnet, or had attained to any perfection in the science of naval architecture.

^{*} This is an absurd term, derived from Hindoo fables.

the more powerful and pervading operation of fire would have been called from its volcanic prisons, and poured forth upon the globe.

(p. ix.)

We, who repose with no less reverence than Mr Clarke in a belief of Divine Providence, and the unerring certainty of its measures, cannot agree with him that the needle of a mariner's compass, or the skill of a carpenter, could have altered its decrees. Unless the antediluvians had possessed a fleet like the British navy, and been able to foresee the event, and secure abundance of provisions; unless they had possessed skill to defy the winds, combined in destruction with the waters, at the fiat of God, and the still more formidable dangers of the rocks on the tops of the mountains, where they might, at least during one period of the Deluge, have been shattered and destroyed—we could not have allowed the probability of their escaping. On occasions of smaller moment, He consounded the language of mankind, and divided rivers and seas: And are these actions of easier performance than consounding the polarity of a magnet?

When he ceases to reason, our historian returns to copy. Along with Mr Bryant he finds, in 'the awful and mysterious Thebath (the ark), a vessel without oars, rudder, or anchor, the origin of naval architecture.' He comments on its materials, the Gophir wood, which he says the LXX call square timbers;

then on its dimensions, and form. According to him,

door or entering part was cut in the fide; and one large window, with probably many feuttles, were so placed as to give light and air with the greatest advantage and security: the whole was then paid, both within and without, with a thick coat of pitch or Asiatic bitumen.

He adds, with great naiveté, that one Peter Janson a Dutchman, and, to use his one phrase, by profession a Menonist, busile a vessel

of this description; and that whilst it was building

— he and his ship were made the sport of the seamen. But, afterwards '(continues he) it was discovered that ships built in this manner were, in time of peace, beyond all others most commodious for commerce, because they would hold a third part more, without any addition of hands.'

On this, we also beg leave to suggest an improvement to our naval historian. Is it not evident that a ship built like the ark, without oars, sails, rudder, or anchor, is equipped either for perpetual rest or motion—a convenience which even the finest first-rates seldom posses? Is it not clear, that, having no oars to ply, nor sails to handle, she actually requires no hands at all? On the contrary, their weight may be better supplied by a suitable portion of cargo; all the occupation of the people aboard being simply, in fair weather, to clear the scuttles, or amuse themselves by looking out from the great window of the ship.

Our

Our readers would derive little information from our author's minute account of the awful cruise which the Thebuth made from the plains of Chaldea to the mountain of Azerst; nor from a long differtation, in obfolete English, by Raleigh, followed by another full of differting and palpable fables by Wilford, on the ituation of that mountain. The one may be found in Hakluys's Collection of Voyages, the other in the fixth volume of the Aliatic Relearches. We promise them better amusement in the history of the dispersion, which he copies werbatim from Mr Bryont.

After the immense horror and astonishment which struck out historian on viewing 'the face of deluge,' he purious the Animates, a dignified and appropriate name for the family of Noah, down to the plans of Shinar, whence he disperses them over the globe. The Egyptians and Phenicians, or Canaanites, he is pleased (after Bryant) to call Amonians, because they were the children of Ham. Of Japhet and his posterity we receive no account. They were probably little skilled of old in gaval affairs. But the sons of Cush, whom he terms Cuthisis, silled many parts of the world; they were a bold adventurous race, whose roaming on sea towards the Straits of Gibraltar, raised pillars, on the top of which was a fire, on all the principal headlands, to direct their perilous voyages; and these pillars were the first

lighthouses.

Profound oriental scholars (but still profounder physiognomists) have recognised the mild and amiable character of the posterity of Shem in the submissive and humane disposition of the Indians. 'Mr Wilford (we are told) has been enabled to discover some traces of their history in the ancient books of the Hindoos; but these traces are faint, and almost lost in the greater glory of the Amonians.' The fiercest part of the descendents of Shem, the Palli or shepherds, carrying with them their faceed books, the four Vedos, emigrated into Egypt, Abyllinia, and Agania. They were, however, preceded by Culh, who was the original leader of those adventurers who first attempted the fea. His fon Nimrod, an arch-rebel, led these Cuthires, Titanians or giants, against the posterity of Affur settled in the plains of Babylon. His troops were dispersed in the engagement; and the flight of their chief towards the Red-lea is recorded by the Greeks in their legends of Bacchus. After this defeat, one remnant of the Cuthises peopled Cal-abus (Colohis near the Euxine,) while another division took possession of the country around Caloutha in India; sciliest Galcutta.

But of all the Nunchists, the Anakim, Tittee, and Souther deferve most attention. The flerce and ambitious Titum, to called from their warship of the sun, are mentioned as the Year 1st. No. 6.

F f builders

builders of the Tower of Babel, which Mr Bryant thinks was a tuphon or temple of that deity. The Scythæ and Cuthites, who were the same nation, extended in colonies from Egypt to Thrace. In the latter country settled likewise a division of the Amonians along the Danube, Da-nau, or Da-nauas, the river of Noah! The Cuthite colony, which fixed its residence in the Indian region Colchis, had also the advantage of a pear! shery: and indeed all the gems of the ancients received their names from the Cuthite or Amonian language. Paralla is not, as translators have ignorantly supposed, a maritime country, but the land of pearls. In proof of which things, Mr Bryant offers, in blank verse, seventy beautiful lines, his own version of Dionysius Periegeticus, who dwells on those sounders of cities and mighty states, and shewers of the path through seas unknown, with great

rapture and veneration.

Sea-charts, we are then told, were first engraved on pillars by the Cuthites in Colchis and Egypt. The temples of Caneph, Proteus, Phanes, and Canobus, were only fea-beacons. Pompey's pillar was originally one of these; for the oracle of Ham was called Omphi, and, when spoken of as 'the oracle, P'omphi and P'ompi.' These facred maritime temples were built by the Amonians on the very coast. Their figure is minutely described by our historian, and delineated in a vignette (p. cl.), which is intended for those of Byrfa, the citadel of Carthage. It appears, moreover, from his reasoning, or rather that of Bryant, that the whole world has been long grossly imposed on by the fables of the Greeks, who have filled their pages with the wildest fictions and errors. Most of the renowned heroes of antiquity were, in reality, nothing but large lighthouses. For the Amonian firebeacons, placed on a round eminence, were called Tith; and fuch a beacon was Tith-onus, the husband of Aurora, so famous for his longevity. Thetis, the fea-goddefs, was a fire-tower near the ocean, called Tith-is. Chiron is Chir-on, the tower of the fun; and the Centaurs, viz. Cahen-taur, was a marine college near Nephele in Thesfaly, in which Achilles and other young gentlemen received a Chironian education. Castor was both a temple and a pharos; while Cerberus was properly Kir-abor, the place of the fun, alias Tor-caph-el, from which the fabulous ancients formed removable, and foolishly protended that he had three heads.

Minos, however, the celebrated legislator, was not a beacon of this description, but the lunar god Neuas, equal to Noas or Noah. He had a cruel temple in Crete, called Mentor, where strangers were facrificed, after being obliged to wrestle or box, in the area before it, with an athletic pricit (probably a common

tar) trained to the exercise, and skilled in the work of death !—

'The Lestrygones, the Lamiæ, and Cyclopeans, were dispersed, with the like cruel disposition, throughout Greece, Pontus, and Libya. The suries, or furiæ, and the harpies, were originally those priests (we should read priestesses) of fire, whose cruelties became so enormous that they themselves were at length enrolled with demons.'

Such is the plan on which our historian and Bryant analyse the mythology of Greece, and write the history of naval discovery. It is simple and obvious. Change every great king (as for instance Sesostris, pp. lx—lxiii.) into a nation; every great hero (ut supra) into a lighthouse; and every goddes into a priestess of fire, by the effulgence of these luminous bodies you may travel in safety through the night of antiquity, and 'lend a new impulse to the literary world.'

If the dignity of the subject would admit either of humour or digression; we think that a very agreeable compendium of modern discovery might be executed on this plan of Mr Clarke. With some assistance from Dr Swist, in the manner and etymology, a British admiral might be changed into a kingdom; each of his heroic tars into a lighthouse; while priestesses of size might readily be found in many of the principal ports of the realm.

But, though heartily weary of the task, we proceed with the Introduction, of which there remain to be dispatched no fewer than 120 pages. These comprehend, in the next place, our author's sage opinion, that America was the Atlantis of Plato! Egypt, Phenicia, Judæa, Ophir, and Tarshish, then pass in review. An enormous pile of indecifive conjectures is substituted for their naval history. We only learn, with regard to the first of these, that the Cynocephali were not men with dogs heads, as the ancients report, or apes, as the moderns believe with abundance of reason; but the Cahen-caph-el, priests of the rock of Orus, the royal Astronomical Seminary in Upper Egypt. 'The Cynocephali, ' says he, ' were, in fact, members of a sacred college, whose professors were persons of great learning, particularly conversant in astronomical observations; they were not only established in Egypt, but likewise in India and other parts of the world.' For more information concerning these wife. but filent philosophers, we refer our readers to the writings of Dr Swift.

In the midst of all this learning, the naval history of Phenicia is almost entirely neglected. If any abler hand shall ever undertake a subject that really appears far above the abilities of Mr Clarke, this forgotten district of Palestine will undoubtedly appear

long

pear as the first and central point of maritime discovery. We hesitate not to affirm, that there is not a passage in ancient hisfory, which affords the smallest reason to believe that naval architecture was modelled from the ark. On the contrary, the flory of the canoe, formed accidentally by fire in the Phenician woods, as confirmed by the flate of navigation in all favage countries, is simple, and agreeable to reason; - a portion of the ancient history of a people who would have gloried in concealing the humble origin of their navy. But Mr Clarke, who is so luminous in his defeription of the ark, passes over, in contemptuous silence, the intermediate progress of naval architecture. For the model of a machine, which man was to govern in the waters, absurdity herfelf would scarcely have fixed on his prototype. The Sidonians wrought on principles of a different nature. They hollowed the cedar on Libanus, and launched it on their fifty thores, to aid their daily endeavours to procure a miferable subsistence. Their country, in all respects destitute of riches, was called by themselves Sidon, the fiftery. In the slow course of improvement they fixed the ears to the fides of the canoe; and at length spread the sheet on a pole raised in the middle. For the first time they invoked * Melcartha to assemble the winds. Having left their nets, they cautiously steered towards other shores, at a perilous distance from their native coast. They transferred to their ships a small portion of the load which had hitherto burdened their camels. They conflructed vessels of different forms, with two or three banks of cars and several masts. Those intended for commerce were called GOLIM, or Faulor; their hull was round, deep, and heavy: those designed for expedition or war (for hostility now ventured on another element), were long, light, and adapted to enterprife.

By the fleet which they gradually created, the Phenicians rendered their mariners princes, and the barren rock of Tyre the emporium of the world. Of all the nations which have braved the deep, none have made a greater progress in naval architecture, discovered more regions of the earth, or conferred on them greater benefits. To the west their navies visited Cyprus, Crete, Italy, Spain, Gaul, and the British islands; their colonies sounded an empire in Africa; to the south they navigated beyond the straits of Babelmandel, along the shores of Zanguebar, and perhaps around the continent. The Greeks received from them their first ideas of naval affairs, and the form of the Argo, or

^{*} Melcartha, the King of the city, a name of Baal or Hercules, whole image was placed on the stern of their ships.

long ship. The origin of the Roman from the Carthaginian navy is sufficiently known; and those of the Portuguese from the caravels of the Italian states. Thus the Phenician history embraces the whole rise and progress of discovery, and of navigation itself. Mr Clarke, comented with the figure of the ark, leaves their merits to oblivion, and retails only what he could pillage

from every common author.

Having piled up an immense farrage of opinions respecting Tarshish and Ophir, and wisely allowed the reader to judge both for the historian and himself, he descends flowly into the regions of truth and probability. Mr Bryant expires with the Argonautic expedition, the last fable which remained to be outdone. Gosselin and Vincent succeed him; the Recherches of the first, he calls a learned and valuable, though in some measure an erroneous work. When compared with the infallible Bryant, we acknowledge the charge: but, by his friendly afficance, Mr Clarke fills up many pages on the naval expeditions of Greece; as, by the help of Vincent, he garbles the celebrated Periplus of Nearchus. In the fourth section, the naval history of Carthage is treated in a dull and profix manner. As the mother state had been superficially examined, the colony could not look for a better fate. After a few unfortunate battles and negotiations, the Queen of Africa perishes, at the fiat of Cato, in the flames of her native city. Having viewed, with some emotion, the enterprising character of Hanno, and Punic navigation, he then crosses the Mediterranean, bound for Italy. The Roman commerce in Egypt, Africa, and India, till the Gothic invalion of the empire, next occupies his attention; and at this point the Introduction closes its dreary expedition through the tempests of antiquity.

The greatest part of our labours should now commence with the principal work, if we thought it at all necessary to lay the contents of it before the public. The facts, however, though sufficiently important, are in general familiar, and we feel that neither the method nor the illustrations deserve any particular notice. We have met with no brilliant passages, nor profound observations to extract; no comprehensive views of human affairs,

ably formed, and beautifully executed.

In Chap. I. Mr Clarke begins to examine modern naval and commercial history from the reign of Charles VII. of France, A. 1422, which he and Voltaire assign as the æra of the liberties of Europe. The trade of Constantinople, Genoa, and Venice, is described. He glances at the Alexandrian commerce of the last of these states; but, weary of composing, inserts a long passage, in obsolete English, from Hakluyt's Voyages. Florence and Ff?

the Medici are discussed in a style of losty declamation, which is the more amusing, as it appears after a cento extracted, in every state of language, from every author which Mr Clarke had inspected. When he ceases to mangle the carcases of the slain, and the body is exhausted, he spreads his wing for a few moments, like a sowl of the noblest pinion, only to disappoint our hopes, by a precipitate descent on another field of slaughter.

The inhabitants of Florence, continually viewing an expanse of water whose boundaries were ascertained, on which the gigantic billow and mountainous swell of the ocean were seldom if ever seen, enjoyed no incentive to the spirit of discovery, no object adapted to create that train of searching doubt and bold conjecture, which the boundless sweep of the Atlantic so much tended to encourage in the mind of Henry

Duke of Visco.' p. 20.

After the Italian states, the Netherlands, Hanseatic league, France, England and Spain are introduced. An attempt is made to delineate the state of European commerce in the sisteenth century. But the portrait is extremely and necessarily rude, owing to the heterogeneous nature of the materials. Our author's performance, indeed, is made up, throughout, of pieces from every writer whose works have been so unfortunate as to fall into his hands; and, instead of possessing the beauty and stability of original workmanship, resembles an Arab's hut plastered with mud, but built with the fragments and pillars of the temple of the Sun.

In Chap. I. § 2. we find the maritime history of Portugal from the origin of that kingdom to the reign of John I., with copious extracts from the narratives respecting India, Tartary, China, and Javan, with which Marco Polo and his brethren excited its spirit of discovery. A curious list of writers on Portuguese his-

tory is subjoined.

Chap. II. proceeds with the discoveries in the West of Africa, under John I, Edward, Alphonso V, and John II. How adventurous the voyagers were that led the way to the circumnavigation of the Cape, is sufficiently known: that they are recorded in this volume with so little elegance, is matter of the deepest regret. In the end of this chapter, we find about eighteen or twenty pages occupied by the hydrography, properly so called, of the Atlantic Ocean. A few remarks on that subject, with practical directions for doubling the Cape of Good Hope, are the first atonement which the author makes to his readers, for withholding from them so long the promised system of hydrography. And, to render the atonement still more satisfactory, he breaks, on account of it, the chronology of his work, by giving instructions how to fail round a promontory, as yet undiscovered, and unknown to his readers!

Chap,

Chap. III. § 1. makes no progress in the principal narrative. but exhibits a retrospect of Indian history from the Macedonian discovery to the close of the fifteenth century. This mighty epifode rifes very awkwardly out of the subject. Alexander entered that country by land: its subsequent dynasties and revolutions. have no connexion with maritime affairs; and though a rapid view of them might have illustrated the Portuguese discovery, yet it ought not to have occupied fo many pages, in a work to which it bears fo distant a relation. A frivolous paragraph about the mariner's compass and magnet, which he supposes to be mentioned in Scripture, 1 Kings x. 11, is fuitably followed up by a differtation on the Indian origin of the fleur de lis on the needle. All this is in order: the historian of navigation, who did not think it worth while to inquire who first invented the oar and the fail, (discoveries nearly as important as that of a ship itself), was likely to bend his whole industry to assign a fanciful and improbable origin to a trivial ornament. We say fanciful; for the Lotus flower, or head of an Indian god, with a leaf on either fide, bears but an imperfect resemblance to the ornament in question; and also improbable, for who can imagine that Gioia of Amalfi, the real inventor of the inflrument, would have travelled to Hindoftan in quest of a polar index?

The Second fection of the Third chapter relates the discovery of the Cape, by Da Gama; with a miserable abridgement of

his voyage, from Castanheda, Osorius, and Camoens.

The Appendix, which we confider as the only valuable part of the book, is entirely a matter of compilation: it contains Galvano's Discoveries of the World, and Locke's History of Navigation, and explanatory Catalogue of Voyages, reprinted from Churchill's Collection. A large extract from Robertson's Dissertation on India, Renaudot's Translation of the Voyages of two Mahomedans in the Indian Ocean during the ninth century, with two or three papers on nautical subjects, finish the work.

Having expressed our opinion so openly in the preceding pages, little remains to be said on the general merits of this author.

Should we recommend that work as a useful history, which violates every law of historical composition, we should neglect the cause of truth and literature, and offer a shameful facrifice to lenity, at the expence of our own reputation. To say nothing of the plan, the execution is far below mediocrity; a fault the more unpardonable, as we now possess excellent historical models in our own language. We only appeal to Mr Clarke, what he would have thought of Dr Robertson, had that elegant historian deformed the text of his narrative of the reigns of Mary of Scotland, or of the Emperor Charles, with large uncouth extracts F f 4

from his authorities? Was it want of time, or of judgment, that obliged the writer of the Progress of Maritime Discovery to diftend his volume with fo many futile opinions, and names of obsolete authors, that confuse the sense, and embarrass the narrative, with patch-work quotations in the very style of the Anatomy of Melancholy? Of these opinions, too, how sew are there which deferve either a ferious affent, or a ferious refutation! If the author of this work believes implicitly in all the abfurdities advanced by Bryant and Wilford, and if those fabulous writers may be quoted with impunity, in works of the first importance, among a learned and judicious people, it affords a melancholy prefentiment of the fate of the best portion of human knowledge. incorruptible monuments of past ages are changed into oracles of fable, and the high-prieft of the delufion is allowed to have given a new impulse to the literary world, it forebodes no great prosperity to the commonwealths of science, or of sense. Yet still we have no foundation for extraordinary alarm. The rude style, and the feeble reasoning, which form the general character of this persormance, are furely by no means calculated to promote the doctrines which it contains.

Supposing that Mr Clarke intended to make his book an a-bridgement of his authorities, of the long Catalogue of Locke, and the twenty-five Collections of Voyages, (a plan which, in the uncertainty of his judgment, seems at times to have been in his contemplation), can this volume be regarded as an able specimen of such a work? He has loaded it with so much extraneous matter, embroiled the affairs of the land with those of the ocean, and confounded travelling with discovery by sea, in so strange a manner, as to forfeit every right to the title which he claims. If hydrography was his principal aim, why is there so little produced on that subject? If maritime discovery was not to be treated according to an historical, but a practical method, why are we overpowered with the national history of Portugal, or the revolutions of Hindostan?

But, destitute as the author is of every talent to write the history of man, it must not be forgotten, that he has considerable merit in writing the history of books. His bibliographical knowledge must have cost him some application, which he ought to have extended to the other requisites of history. It is no common proof of his desiciency in true taste, that, in a work of this nature, he has thought sit to adorn the beginning of so many of his sections with a fragment of verse from Bowles or Mickle, as if they had been essays in the manner of the Spectator. The account to the poets for the first chapter is as follows: Eight lines from Thomson, as a motto to Book I.; four from Spencer, at p. 6.; sixteen from Tasso on the trade of Venice; seven from Ossian,

(an invaluable author!) on Danish Navigation; sixty-eight from the Prologue of the Processes of English Policie, on Commerce; three from Hayley's Essay on History; twenty in Portuguese, from Camoens, with a translation by Mickle, for the benefit of mere English readers; again, eight lines from Camoens, with ditto; lastly, at p. 89, twenty lines from Os Lusiadas, with a translation; in all, 154, in one chapter. The rest were long to tell. The first book concludes the account of the celebrated discovery of the Cape by Da Gama, with twenty-eight lines of Mickle's translation of 'the Lusitanian Homer.' The last four are printed in capital letters: they are an apostrophe of the poet to the gallant Admiral who first expelled from that quarter the reign of Chaos and Old Night, and may now be addressed, with considerable propriety, to the historian, who has laboured so innocently and unconsciously to establish it here.

O glorious chief! while florms and oceans rav',
What hopelefs toils thy dauntlefs valour brav'd!
By toils like thine the brave afcend to Heaven;
By toils like thine immortal fume is given!

ART. XVI.—Life of Geoffrey Chaucer, the early English Poet; including Memoirs of his near Friend and Kinsman John of Gaunt, Duke of Lancaster; with Sketches of the Manners, Opinions, Arts, and Literature of England in the 14th Century. By William Godwin. 2 vols. 4to. London, 1803.

THE perusal of this title excited no small surprise in our critical fraternity. The authenticated passages of Chaucer's life may be comprised in half a dozen pages; and behold two voluminous quartos! The more fanguine of our number anticipated the recovery of the 'Boke of the Lioun,' and the other long lost labours of Adam Scrivenere, the bard's amanuensis; the more cautious predicted a new edition of the Chest of Rowley, and the Shakespeare cabinet of Ireland. Our expectations were vet farther heightened, by the lofty tone in which Mr Godwin contrasts his own labours and discoveries with those of the former biographers of Chaucer. Tyrwhitt, the learned and indefatigable editor of the Canterbury Tales, had professed himself unable to produce more than a short abstract of the historical passages of the poet's life; and Ellis, the elegant historian of our early poetry, has (to use his own words) 'followed Tyrwhitt, in reciting a few genuine anecdotes, instead of attempting to work them into a connected narrative, in which much must have been supplied by mere conjecture, or by a forced interpretation of the allusions scattered through the works of the poct,

poet.' But Mr Godwin censures this resolution, as having been adopted to fave the fatigue of minute refearch after the documents from which a full and formal life of Chaucer might have

been compiled.

* The fact is, however, that this editor (Mr Tyrwhitt) made no exertions as to the hiftory of the poet, but contented himself with examining what other biographers had related, and adding a few memorandums, taken from Rymer's Manuscript Collections, now in the British Museum. He has not, in a fingle inftance, resorted to the national repositories in which our records are preserved. In this fort of labour I had been indefatigable, and I have many obligations to acknowledge to the politeness and liberality of the persons to whose custody these monuments are confided. I encountered, indeed, no obstacle, whenever I had occasion to direct my inquiries among the different offices of Government. After all my diligence, however, I am by no means confident that I may not have left fome particulars to be gleaned by the compilers who shall come after me. Preface, p. xii.

After this heavy imputation upon a former editor, to whose industry and labours Chaucer is chiefly indebted for the revival of his fame; after the grave felf-congratulation of the biographer; his thanks to those who aided, or did not impede his researches; and his modest apprehensions, that, notwithstanding all his diligence, fome gleanings may remain for future compilers:—the reader will learn, with admiration, that Mr William Godwin's two quarto volumes contain hardly the vestige of an authenticated fact concerning Chaucer, which is not to be found in the eight pages of Messrs Thomas Tyrwhitt and George Ellis. The refearches into the records have only produced one or two writs, addressed to Chaucer, while clerk of the works; the several grants and passports granted to him by Edward III. and Richard II., which had been referred to by former biographers; together with the poet's evidence in a court of chivalry, a contract about a house, and a solitary receipt for half a year's falary. These, with a few documents referring to John of Gaunt, make the Appendix to the book, and are the only original materials brought to light by the labours of the author. Our readers must be curious to know how, out of such slender materials, Mr Godwin has contrived to rear such an immense fabric? For this purpose he has had recourse to two fruitful expedients. In the first place, when the name of a town, of a person, or of a science, happens to occur in his narrative, he stops short, to give the history of the city ab urbe condita; the life of the man, from his cradle upwards, with a brief account of his ancestors; or a full essay upon the laws and principles of the science, with a sketch of the lives of its most eminent professors. We will not do Mr Godwin the injustice to suppose, that this mode of biography is copied from some respectable.

spectable old gentleman prosing by his fire-side, who halts in the flory about Tom, till he has given the yawning audience the exploits and genealogy of honest Dick. We believe he profited by instructions derived from no less a person than Miguel Cervan-' If you have occasion,' says that author, 'to mention a giant in your piece, be fure to bring in Goliah, and on this very Goliah (who will not cost you one farthing) you may spin out a fwinging annotation. You may fay, The giant Goliah, or Goliat, was a Philistine, whom David the shepherd flew with the thundering stroke of a pebble, in the valley of Terebinthus. Vide Kings, fuch a chapter and fuch a verse, where you may find it written. If, not fatisfied with this, you would appear a great humanist, and would flow your knowledge in geography, take fome occafion to draw the river Tagus into your discourse, out of which you may fish a most notable remark: The river Tagus, say you, rvas so called, from a certain king of Spain. It takes its rife from fuch a place, and buries its waters in the ocean, kiffing first the walls of the famous city of Lisbon; and some are of opinion that the fands are gold, ' &c. &c. &c. So well has Mr Godwin profited by thefe instructions, that the incidents of Chaucer's life, serving as a fort of thread upon which to string his multifarious digressions, bear the same proportion to the book that the alphabet does to the Encyclopædia, or the texts of a volume of fermons to the fermons themselves. A short glance at the work will fully justify this affertion.

Chaucer was born in London.—This is the Subject of the first chapter. The commentary is a sketch of the history of London from the year of Christ 50, down to the reign of Edward III, with notices respecting the principal citizens and Lords Mayor, Henry Picard, John Philpot, Sir William Walworth; not forgetting Whittington and his cat. The proportion of the commentary to the text is as twelve pages to as many lines. - Chaucer must have gone to school. This is text the second, and forms a sufficient apology for a long essay on the learning of the age; while the probability that, during the vacation, Chaucer must have read romances, * introduces a long differtation on these compositions, awkwardly abridged from Warton and Ellis. But Chaucer must have gone sometimes to church, -and therefore Mr Godwin feels himself obliged to give an account of the peculiar tenets of the church of Rome; some of which, particularly those of purgatory and auricular confession, seem greatly to the taste of our philosophical biographer. The author proceeds. with

Mr. Godwin may have himself read Valentine and Orson, while at school; but during the 13th century, romances were the amusement of grown gentlemen.

· It

with the most unfeeling prolixity, to give a minute detail of the civil and common law, of the feudal institutions, of the architecture of churches and castles, of sculpture and painting, of minstrels, of players, of parish clerks, &c. &c.; while poor Chaucer, like Triftram Shandy, can hardly be faid to be fairly born, although his life has attained the fize of half a volume. How these various differtations are executed, is another consideration; but we at present confine ourselves to the propriety of introducing them as part of the life of Chaucer. aware that Mr Godwin has informed us, that, 'to delineate the flate of England, such as Chaucer saw it, in every point of view in which it can be delineated, is the subject of this book; and that ' the person of Chaucer may in this view be considered as the central piece in a miscellaneous painting, giving unity and individual application to the otherwise disjointed particulars with which the canvas is diversified.' Now, had the biographer either possessed, from the labours of others, or recovered, by his own industry, facts sufficient to make a regular and connected history of Chaucer, bearing some proportion to the 'disjointed particulars' fo miscellaneously piled together, we could have objected less to the digressive matter, although even then we might have required it to be abridged and condensed. where the central figure, from which the whole piece takes its name and character, is dimly discoverable in the back-ground, obscured and overshadowed by the motley groupe of abbeys, castles, colleges and halls, fantastically pourtrayed around it, we cannot perceive either unity or individuality in so whimsical a performance. The work may be a view of the manners of the 13th century, containing right good information, not much the worse for the wear; but has no more title to be called a life of Chaucer, than a life of Petrarch.

We have faid that Mr Godwin had two modes of wire-drawing and prolonging his narrative. The first is, as we have seen, by hooking in the description and history of every thing that existed upon the earth at the same time with Chaucer. In this kind of composition, we usually lose fight entirely of the proposed subject of Mr Godwin's lucubrations, travelling to Rome or Palestine with as little remorfe as if poor Chaucer had never been mentioned in the title-page. The second mode is considerably more ingenious, and consists in making old Geosfrey accompany the author upon these frisking excursions. For example, Mr Godwin has a fancy to describe a judicial trial. Nothing can be more easily introduced; for Chaucer certainly studied at the Temple, and is supposed to have been bred to the bar.

* It may be amufing to the fancy of a reader of Chaucer's works, to represent to himself the young poet accoutred in the robes of a lawyer, examining a witness, fixing upon him the keenness of his eye, addressing himself with anxiety and expectation to a jury, or exercising the subtlety of his wit and judgement in the developement of one of those quirks by which a client was to be rescued from the rigour of strict and unfavouring justice. Perhaps Chaucer, in the course of his legal life, saved a thief from the gallows, and gave him a new chance of becoming a decent and uleful member of fociety: perhaps, by his penetration, he differned and demonstrated that innocence which, to a less able pleader, would never have been evident, and which a less able pleader would never have succeeded in restoring triumphant to its place in the community, and its fair same. Perhaps Chaucer pleaded before Trefilian and Brember, and lived to know that those men whose siat had silenced his argument, or to whose inferiority of understanding, it may be, he was obliged to vail his honoured head, were led to the basest species of execution, amidst the shouts of a brutish

and ignorant multitude.' vol. I. p. 369.

This curious tirade is not to be placed among those occasional flourishes to which authors who affect the striking and the sentimental are so peculiarly addicted. It is not given as a daydream, in which the writer gives reins to the vivacity of his imagination; but the supposed cases which Mr Godwin puts. without the least authority from the record, are gravely intended as illustrations of the Life of Chaucer. For example, the next fentence informs us- We have a right, however, to conclude, from his early quitting the profession, that he did not love it: And this averment is followed with a lift of the unhappy effects which the study of the law produces on the human understanding and temper. We do not think the profession congenial to the feelings of a youthful poet; but it is probable, that he who could stoop to the drudgery of comptroller of the customs, had other reasons for leaving the bar than mere disgust at the profession. For cockets and dockets,' and 'fugar casks, and beer-buts, and Common-council men,' (p. 502.), may be supposed to have as benumbing an effect upon the heart and imagination, as cases and precedents, and the ambidexter ingenuity of the bar. Another instance of the laudable manner in which the narrative is bolftered out by imaginary circumstances, occurs where Mr Godwin treats of Chaucer's confinement in the Tower. The biographer is not satisfied with putting the bard into a dungeon; farther severities are conjured up against him; his apartment is supposed to have been changed for a worse. It is probable that he was confidered as a person of inferior consequence, and obliged to yield his apartment to some statesman of lostier title. who was a few days after conducted to the scaffold.' Nay, further, it is Mr Godwin's opinion, that his friends were denied accela access to him, and a mouton or jail-spy quartered in his chamber; both of which suppositions afford a good sentence or two of phi-

losophical condolence.

*His likely that he was forbidden the wifits of his friends; but by the magic power of fancy he called about him ordeftial vifitants. It is likely, that a jailor or a turnkey was planted in his apartment, under pretence of checking unlicensed attempts at correspondence or escape; but in reality, serving only to exclude him from one of the best inheritances of man, the power of being alone in the filence of elemental nature, and with his own thoughts. Chaucer, however, assisted by the workings of his mind, instead of seeing continually the base groom who attended him, saw only the gods who protected and cheered him in his cell. vol. 11. p. 477.

It is needless to examine what foundation exists for such vague suppositions, when we know that Chaucer was so much master of his time and thoughts during his confinement as to compose his Testament of Love. His biographer might with equal plausibility have grafted upon his flory a supposed attempt to escape, and given us a Newgate kalendar chapter from the horrors of Caleb Williams, or the languors of St Leon. These affertions rest entirely upon the gratis dictum of Mr Godwin, and, with a thousand others, are only introduced with an 'it is posfible," or "ir is probable," or indeed the bare conjunction if, which having been long renowned for a peace-maker, will doubtless in future be allowed equal virtue in compilation. But we are deeply interested, for our own sake, as well as that of the public, in entering our protest against this mode of book-making. biographer be at liberty to introduce into his story a full account of every contemporary subject of disquisition, however little connected with his hero, and can assume the further right of connecking his hero, by virtue of a gratuitous supposition, with whatever scenes he may take a fancy to describe, it is obvious, that unless the author's mercy temper his strength, the rights of the courteous reader are in no small peril. To what length Mr Godwin might have extended his history, not so much of what Chaucer did actually do, as of what he and all his contemporaries might, could, would, or should have done, cannot now be exactly ascertained. He informs us in his Preface, that after writing about a thousand quarto pages, it was altogether uncertain when he might have drawn to a close. But there exists a superior power, to which even authors must 'vail the honoured head,' and, fortunktely for the Reviewers, Ecce Deus ex Machina!

If I, enamoured of my subject, might have thought no number of pages, or of volumes, too much for its developement, it was by no means impossible that purchasers and readers would think otherwise. My bookfeller, who is professionally conversant with matters of this sort, assured me, that two volumes in quarto were as much as the public would

would allow the title of my book to authorife. It would be in vain to produce a work, whatever information it might comprile, which no one will purchase or read: I have therefore submitted to his decision.

Upon perusing this fentence, the cold drops stood upon our brow at contemplating the peril which we had escaped; and while we lauded the gods for Mr Phillips' tardy interference in our behalf, we marvelled not a little at the good man's easy faith, which

had fo long deferred it.

From these remarks upon the general structure of the work, we may now descend to view the execution of the plan, such as it is, beginning with what relates to Chaucer, who (pars minima ful) occupies the leaft share in his own memoirs. appears to us, that, among the very few facts concerning our bard, which Mr Godwin has given us, fome are affumed without due evidence. For example, we are informed, that, ' having passed through a certain course of education, Chaucer was removed to the University of Cambridge.' The only proof which is brought of this affertion is, Chaucer's having termed himself in the Court of Love, 'Philogenet of Cambridge, clerk,' But we cannot see how the acknowledged falsehood of one part of this defignation can possibly prove the truth of the rest; or why Chaucer may not have invented a fictitious character to be attached to a false name. It feems to us much such an argument, as might be adduced to prove that the late Mr Mason resided at Knightsbridge, inalmuch as that was the pretended abode of the facetions Malcolm MacGregor. In like manner, we are very willing to suppose, that the old bard was a man of a jovial and feftive habit; but we would rather infer this from his writings, than from supposing that he daily confumed the whole pitcher of wine which was allowed him by the King. Indeed, from the address of the holt to Chaucer, we imagine a personage of a grave and downcast appearance, very different from the idea we might form, à priori, of the jolly author of the Canterbury Tales: but it would be as ridiculous to argue from hence, that he was an enemy to mirth, as to hold that, with or without affishance, he daily discusfed four bottles of wine, because he received such an allowance from the royal cellar.

The public are indebted to Mr Godwin for the recovery of Chaucer's evidence in a question about bearing arms, occurring betwixt Scroope and Grosvenor; * but the manner in which it is narrated, is a good illustration of the strained inferences concerning Chaucer's temper and disposition, deduced by his biographer

from the most common and trivial occurrences.

Chaucer

^{*} We hold this to be the only circumflance of importance, which Mr Godwin's refearches have brought to light; and so far our thanks are due to him.

Chaucer was a man of a frank and easy temper, undeformed by haughtiness and reserve, and readily entering into a certain degree of social intercourse on trivial occasions. This particular is strongly confirmed to us by the curious record of his testimony, in the cause of arms between Scrope and Grosvenor. He describes himself as walking in Friday Street, in the city of London, and observing there the arms he had feen always borne by the family of Scrope hung out as a fign. This inconfiderable circumstance immediately excites an interest in the patriarch of the English language, and English poetry. The Scropes were his friends. He accosts a stranger, whom he perceives accidentally flanding by, and asks, 'What inn is that which I observe has hung out the arms of Scrope for its fign?'- 'Nay,' replied the other, 'it is no inn, nor are these the arms of Scrope; they are the shield of a Cheshire family of the name of Grosvenor.' In Chaucer, the thus addressing himself to a person unknown, is no evidence of a vulgar, indelicate, and undiscriminating mind. It shows that he was a character, not fastidious enough to refuse to interest itself in trisles, and frank, even and assable in his intercourse with mankind.' p. 569, vol. II.

And all this is to be inferred from a question asked at a passenger, the fruit probably of momentary curiosity. This mode of drawing characters ought to supersede that of the ingenious Frenchman, who describes them accurately from seeing the par-

ty's handwriting.

While Mr Godwin was thus poring upon a millstone, and proclaiming his discoveries to the world, we are surprised that he has omitted the famous tradition, that Chaucer, while in the Temple, was fined two shillings ' for beating a Franciscan friar in Fleet-Street.' (See Fuller & Speght.) This circumstance, with a proper allowance of possibilities, would have gone some length in eking out a third quarto. For, in the first place, it is naturally connected with the history of Fleet-Street, and Fleet-ditch, and the Fleet-Prison, and of Fleta the law-book, and of the Fleet or Royal Navy, with some account of which (so naturally bearing upon the life of Chaucer) the reader must no doubt have been highly gratified. Secondly, the circumstance of the fine, would have happily introduced a history of the silver coinage, with an abbreviate of the Temple records, from the earliest period to the prefent day; and the political justice of fine and imprisonment might have been discussed in a separate chapter. Thirdly, the mention of the Franciscan, would have paved the way with great propriety for a history of the mendicant orders, and have faved Mr Godwin the trouble and difgrace of foilting it in elfewhere. upon a much more flimfy pretext. (vol. II. p. 20). But, 2bove all, the cause of the scuffle, and the drubbing itself, would have led to many a learned differtation. It is probable that and or both parties were in liquor. If for when, how, or with

with what liquor did they become intoxicated? Was it with wine of Ape, or of Chepe; with Malverie, or with Hippocras? Was it together or separately? And can any light be thrown upon the combat, from the similar affray betwixt justice Shallow when an Inn's of court man, and Samson Stocksish the fruiterer? Again, it is probable that the quarrel originated in some theological dispute,—and the vast and thorny sield of controversy might have been accurately surveyed, to enable the reader to six upon the precise spot occupied by the disputants. Perhaps Chaucer offended the friar by the freedom of his conversation,—and why not insert all the jocose and satirical passages of the Canterbury Tales? To illustrate the nature of the beating, Mr Godwin might have described—

— 'Your fouse, your wherit and your dowst,
Tugs on the hair, your bob o' the lips, your thump,
—your kick, the fury of a foot,
Whose indignation commonly is stamped
Upon the hinder quarters of a man,—
With all your blows and blow-men whatsoever,
Set in their lively colours, givers and takers.'

All which knowledge is unfortunately lost to the world, perhaps through the ill-considered interference of Mr Phillips the publisher.

Some particular passages of the life, are less fancifully and more correctly delineated. Mr Godwin combats, and in our opinion successfully, the opinion of those who deny the honourable claim of Thomas Chaucer, to call the poet father: and he has vindicated the relation, which the Dreme of Chaucer un-

questionably bears to the History of John of Gaunt.

The critical differtations upon Troilus and Creseide, and Chaucer's other poems, have confiderable merit. They are tle production of a man who has read poetry with tatte and feeling; and we wish sincerely, that instead of the strange farrago which he calls the life of Chaucer, he had given us a correct edition of the miscellaneous poetry of the author, upon the same plan with Mr Tyrwhitt's admirable Canterbury Tales. It is true, that we could not have expected from Mr Godwin, either the extensive learning or the accuracy of illustration which Mr Tyrwhitt has displayed. But, as already noticed, his critical disquisitions have occasional merit; and he might have pleaded the ancient prerogative of commentators, for writing in a more rambling and diffusive style than is consistent with the dignity of history or biography. Mr Godwin is fometimes rather hafty in his critical conclusions. He exclaims against Chaucer, for polluting the portrait of (Creseide's) virgin character in the beginning of the poem, with fo low and pitiful a joke as thisBut whether that she children had or none,
I rede it not, therefore I let it gone. Vol. I. p. 305.

If Mr Godwin had perused the poem attentively, he would have seen that no joke was intended, and that Creseide was no maiden, but in fact a young widow.

' And as a widowe was she and alone.'

And again, when invited by Pandarus to do honour to May,

* Eighe! God forbid, quod she, what! be ye mad?

Is that a widowe's life, so God you save?

Pardy you makin me right fore adrad;

Ye bene so wilde, it semith as ye rave.

It sate me wele better, aie in a cave

To bide, and rede on holy faintis lives:

Let maiding you to dance and young wives.'

We were much furprifed to find, that the Canterbury Tales, the most important, as well as the most exquisite of Chaucer's productions, have attracted fo little of Mr Godwin's attention. He might have displayed, in commenting upon poems as varied in subject as in beauty, his whole knowledge of the manners of the middle ages, were it ten times more extensive. But Mr Godwin, beginning probably to write before he had confidered either the nature of his subject, or the probable length of his work, had exhausted both his limits and materials ere he came to the topic upon which he ought principally to have The characters, therefore, of the feveral pilgrims, fo exquisitely described, that each individual passes before the eyes of the reader, and fo admirably contrasted with each other; their conversation and manners, the gallantry of the Knight and Squire, the affected fentimentality of the Abbess, the humour of mine Hoft, and the Wife of Bath; the pride of the Monk, the humility of the Parfon, the learning and poverty of the Scholar, with the rude but comic portraits of the inferior characters, are, in the history of the life and age of Chaucer, of which they form a living picture, passed over in prosound silence, or with very flight notice. The truth is, Mr Godwin's speed and Arength were expended before he came within fight of the goal, and he saw himself compelled with a faint apology to abandon that part of his subject which must have been universally interesting. The few remarks which he has made upon the Canterbury Tales, induce us to believe that he has feen and regreted his error; but it is a poor excuse, after writing a huge book, to tell the reader that it is but 'superficial work,' because the author ' came a novice to such an undertaking.' (See Preface). It is the duty of an editor, to collect and arrange his materials before he begins to print his work; nor will the public be fatiffied fied with an apology, which ought either to have deterred him from the undertaking entirely, or at least to have retarded the execution of it, till study and labour had supplied the desects of superficial information. As Mr Godwin is unquestionably a man of strong parts, we by no means discourage him from applying himself to illustrate the history of his country, but we would advise him in suture, to read before he writes, and not merely while he is writing.

The history of 'Old John of Gaunt, time-honoured Lancaster,' occupies a considerable portion of these volumes. He is styled in the title page, Chaucer's 'near friend and kinsman;' an abuse of words, if, as we conceive, kinsman can only be correctly used to express a blood relation. John of Gaunt was undoubtedly Chaucer's patron, and ultimately stood in a certain degree of affinity to him, by marrying his concubine, a sister of the poet's wise; but this connexion could not give to the bard a portion of the blood of the Plantagenets, or render him in any sense the kinsman of the Duke of Lancaster. In the historical part of his work, Mr Godwin has proposed to himself a splendid plan. Antiquities had, in his opinion, hitherto been the province of

men of cold tempers, and sterile imaginations, whose works are compiled with such narrow views, so total an absence of discrimination, and such an unsuspecting ignorance of the materials of which man is made, that the perusal of them tends for the most part to stupify the sense, and to imbue the soul with moping and lifeless dejection. It was my wish, had my power held equal pace with my strong inclination, to carry the workings of sancy and the spirit of philosophy into the investigation of ages past. I was anxious to rescue, for a moment, the illustrious dead from the jaws of the grave, to make them pass in review before me, to question their spirits, and record their answers. I wished to make myself their master of ceremonies, to introduce my reader to their familiar speech, and to enable him to seel, for the instant, as if he had lived with Chaucer.' Preface, x.

This is well proposed, and expressed with that dignified contempt of his predecessors labours, which especially becomes an author at the moment when he is about to avail himself of the information they afford him. But it is one thing to call spirits from the valty deep, and another to compel their obedience to the invocation. When we expected to see the heroes of Cressy and Pointers stalk past in the rude and antiquated splendour of chivalry, as perchance they might have appeared upon the summons of Warton, Ellis, or some such cold-tempered, serile-minded antiquary, the philosophical phantasmagoria of Mr Godwin presented us with a very different set of beings. It seems to have been his rule,

train

that if it be difficult to think like our ancestors, it is very easy to make them think like ourselves; and therefore, whatever motives Mr Godwin himself esteems praiseworthy and laudable, he imputes to his hero John of Gaunt, with all the liberality and contempt for congruity of the worthy squire who equipped his Vandyke portraits with modern periwigs. In this respect, the work reminds us of a particular class of novels, said to be ' founded on real history, in which the dramatis persona are assumed from the ages of chivalry, but apparelled in the fickly trim of fentiment peculiar to the Grevilles and Julias of Mr Lane's half-bound duodecimos. Mr Godwin's dukes and knights hold, in like manner, the language, we had almost faid the cant, of his foi-difant philosophy; and argue as learnedly of the nature of the human mind, of cause and effect, and all that, as if they had occasionally prefided at Coachmakers Hall. The Duke of Lancaster was unquestionably the wisest prince of his time; yet his honoured shade must forgive us, if we deem him incapable of framing the profound and polite oration which he is here supposed to address to Chaucer, upon his being appointed an ambaffador. We can only afford room to intert the following grand finale: 'Man is a complex being, and is affected with mixed confiderations; and your contemporaries will liften with far different feelings to your beautiful and elevated productions, if they flow from an ambassador and a minister of state, than if you remained obscurely sheltered under your natal roof, in the city in which you were born, or fequestered among the groves and streams which adorn your neighbourhood at Woodstock.' And this twaddling stuff is supposed to be spoken by John of Gaunt, and to Geoffrey Chaucer! And this is carrying ' the workings of fancy,' and ' the spirit of philosophy,' into the investigation of ages past, and specuing the illustrious dead from the jaws of the grave!" Imbued "with moping and lifeless dejection, and stupisfied ' as we are, after the perufal of two huge quarto volumes of incoherent narrative and trite fentiment, we cannot help feeling, at fuch absurdity, a momentary impulse of surprise and indignation!

Of the miscellaneous information contained in these volumes, we cannot be expected to treat at length, especially as the greater part of it has nothing to do with the proper subject of the book. It seems to us, that Mr Godwin, a novice, as he himself informs us in the study of ancient history, had applied himself to his task with the ardour of a proselyte. Every fact, every peculiar view of manners which occurred in the course of his reading, had to him the charms of novelty; and he was benevolently eager to communicate to others the information which he had just acquired. But, unfortunately, a mind which has newly received a fresh

train of ideas, is almost invariably found incapable to abridge or digest them, as no man can draw a map of a country which he traverses for the first time. Upon subjects not familiar to our thoughts, we must be contented to express ourselves with the crude prolixity of the works from which we have derived our information; and our attempts to be copious and distinct, will commonly produce but a string of tedious and ill-combined extracts, instead of a concide and luminous system. Hence the long, dull, and unnecessary details with which Mr Godwin has favoured us upon every subject which crossed his path. He could but write in proportion as he read, and empty his common-place as fast only as he filled it. A comprehensive view of his subject we cannot possibly find in his writings; for it was at no time wholly before his own eyes. He knew not when or where to ftop; and, in fact, was forced, from mere want of room, to abandon his work, half-finished, at the moment it became most interesting.

Some of the differtations, confidered abstractedly, possess confiderable merit; and we cannot refuse praise to the industry of Mr Godwin, who has acquired a great fund of knowledge, however ill-arranged, upon subjects to which he was so lately an attor stranger. We have already said, that we would be pleased to fee some parts of his book arranged as notes upon Chaucer's poems. We find it impossible to 'pick them in a pile of noisome and multy chaff; but when they are brought forward in a work arranged upon a better plan, our approbation shall be conferred much more willingly than our present censure. A natural confequence of the hurry with which Mr Godwin has compiled his work, is the inaccuracy which has occasionally crept in, although less frequently than we could have thought possible. Vere, for example, the favourite of Richard II., is likened to Carr, the minion of James I., with these advantages in favour of the former, that he was of an ancient family, and Carr an upstart, ' p. 366. This is a mistake. Carr, or Ker, Earl of Somerset, was the third son of Sir Thomas Ker of Fairnyhirst, the chief of a very ancient and powerful family, now represented by the Marquis of Lothian. As he had unfortunately little personal merit, it is hard to deprive him of the advantage of birth, which he really possessed. The universal predominance of the French language in the reign of Edward III. is expressed with rather too much latitude, vol. I. p. 18. Previous to the birth of Chaucer, a remarkable change had begun to take place in this particular. Histories, and long poems of devotion and chivalry, were already translated out of the Romance or French language into English, and thefe in fuch numbers, as sufficiently to demonstrate that they

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were not required for the use of the lower and middle classes alone. We should have been pleased to have seen the authority upon which the romances of Robert sans peur and Robert le diable are ascribed to Waer, having esteemed these tales of later date than the Roman de Rou. The story of Aulas the Dane, who is said to have penetrated into King Athelstane's tent, disguised as a ministrel, is rather apocryphal, especially with the miraculous decorations of William of Malmesbury. Mr Godwin seems to entertain some doubt of John of Gaunt's slight into Scotland, and residence at Holyroodhouse. But no fact can be better attested. Andrew of Winton, a cotemporary historian, has decicated a chapter to show

· Qhwen of Longcastele the Duke

Refute intil Scotland tuk. ' Book IX. c. 4.

He mentions particularly his progress, in which he was attended by Earl William of Douglas, from Berwick to Haddington, and thence to Edinburgh—

And intil Haly-rwde-hows that Abbay
Thai made hym for to take herbry.

This circumstance, and the more recent asylum afforded in Scotland to Henry VI., are probably alluded to by Molinet, when he terms that country

De tous fiecles, le mendre Et le plus tollerant.

The style of Mr Godwin's life of Chaucer is, in our apprehenfion, uncommonly deprayed, exhibiting the opposite descels of meanness and of bombast. This is especially evident in those sentimental slourishes with which he has garnished his narrative, and which appear to us to be executed in a most extraordinary taste. In the following simile, for example, we hardly know whether most to admire the elegance and power of conception, or the happy ease and dignity of expression.

Its stender pillars (the author is treating of the later Gothic architecture) may possels various excellences, but they are certainly not magnificent; and the shafts by which the pillars are frequently surrounded have an insignificant air, suggesting to us an idea of fragility, and almost reminding us of the humble vehicle through which an English or German rustice

inhales the fumes of the Indian weed.' Vol. 1. p. 145.

In p. 181, we hear of 'a tune, in which the luxuriance and and multiplicity of mufical founds obscures and tramples with distain upon the majestic simplicity of words.' In other places, we find 'the technicalities of justice'—'the religious nerve of the soul of man'—young knights who looked upon the field of Roncesvalles with 'augmented circulation'—'unforsbortened sigures'—n 'ancient baron neighboured to a throne,' and sundry other extremely new and whimsical expressions. But even these consecutives

ceited barbarisms offend us less than the execrable taste display-

ed in the following account of Chaucer's early studies.

• He gave himself up to the impressions of nature, and to the sensations he experienced. He studied the writings of his contemporaries, and of certain of the ancients. He was learned according to the learning of his age. He wrote, because he selt himself impelled to write. He analyzed the models which were before him. He sought to please his friends and sellow scholars in the two Universities. He assired to an extensive and lasting reputation. Vol 1. p. 436.

We have no doubt that Mr Godwin confiders these thort sentences as the true model of a nervous and concise style. For our part, we find the sense so poor and trire, when compared with the pithy and sententious mode of delivery, that we seel in our closet the same shame we have sometimes experienced in the theatre, when a sourth-rate actor has exposed himself by mouthing, slapping his pockets, and, according to stage phrase, making the most of a trissing part. We will not pursue this subject any surther, although we could produce from these ponderous tones some notable instances of the mock heroic, and of the tone of salse and affected sentiment. Such passages have tempted us to exclaim with Pandarus (dropping only one letter of his ejaculation),

Alas! alas! fo noble a creature
As is a man should reden * such ordere!

Upon the whole, Mr Godwin's friends have, in one respect, great reason to be fatisfied with the progress of his convalescence. We hope and trust, that the favourable symptoms of his case may continue. He is indeed now and then very low; or, in other words, uncommonly dull; but there is no apparent return of that fever of the spirits which alarmed us so much in his original publications. The infurrection of Jack Straw (a very dangerous topic) produces only, a faint and moderate aspiration breathed towards the sared doctrines of equality, which it is admitted are too apt to be 'rashly, fuperficially, and irreverently acted upon, involving their disciples in the most fearful calamity. ' The disgrace of Alice Pierce, or Perrers, the chere amie of Edward III, or, as Mr Godwin delicately terms her, ' the chosen companion of his hours of retirement and leifure,' calls down his refentment against the turbulence and rudeness of the Good Parliament. But less could hardly have been expected from the author of the Memoirs of a late memorable female.

We cannot help remarking that the principles of a modern philosopher continue to alarm the public, after the good man G g 4 himself has abandoned them, just as the very truest tale will sometimes be distrusted from the habitual salsehood of the narrator. We fear this may have incommoded Mr Godwin in his antiquarian researches, more than he seems to be aware of. When he complains that private collectors declined 'to part with their treasures for a short time out of their own hands, 'did it never occur to Mr Godwin that the maxims concerning property, contained in his 'Political Justice,' were not altogether calculated to conciliate considence in the author?

But, upon the whole, the Life of Chaucer, if an uninteresting, is an innocent performance; and were its prolixities and superfluities unsparingly pruned (which would reduce the work to about one fourth of its present size), we would consider it as

an accession of some value to English literature.

ART. XVII. Experiments and Observations on the various Alloys, on the Specific Gravity, and on the Comparative Wear of Gold. Being the Substance of a Report made to the Right Honourable the Lords of the Committee of Privy Council, appointed to take into consideration the State of the Coins of this Kingdom, and the present Establishment and Constitution of his Majesty's Mint. By Charles Hatchett Esq. F. R. S. From Phil. Trans. for 1803. Part I. pp. 150.

In the month of February 1798, a committee of Privy Council, composed of the Great Officers of State, the Chiefs of the several Courts, the President of the Royal Society, and one or two other persons in high public stations, was appointed to examine the state of the British coin. One of the first objects of inquiry was, the cause of that loss which the gold currency is found to sustain in the course of circulation; and the Committee very properly delegated this investigation to Messirs Cavendish and Hatchett, who, between the latter end of 1798 and the month of April 1801, carried on that most interesting course. of experiments which forms the subject of the present communication. Although Mr Hatchett is the narrator of the proceedings, and very honourably takes upon himself the responsibility of any inaccuracies that may have been introduced, he affigns to Mr Cavendish his just share of praise, by stating that the new machinery and dies used in the experiments were entirely of his contrivance.

Although the questions to be resolved by this inquiry, related to the wearing of gold by friction, yet, in the course of the experiments, various facts have been discovered respecting the combinations of the precious metals, which the expensive nature of the materials had prevented former chemists from observing. As the results of Mr Hatchett's elaborate investigation are highly important both to the political economist and the metallurgist, we shall present our readers with a short abstract of the points which he has succeeded in ascertaining; and we shall at the same time notice that part of the method of conducting the experiments which is distinguished by its originality.

Two general objects of inquiry were proposed; to determine the comparative effects of friction upon soft and upon hard gold, and to determine the comparative effects of friction upon smooth and flat, and upon rough surfaces. Neither of these problems had ever been satisfactorily solved; the solution of the former was still a matter of complete uncertainty, and the common opinion respecting that of the latter was sounded on vague con-

jecture.

In order to obtain a full explanation of the matter, it was necessary to examine, first of all, the effects of different alloys and in different proportions, from one twelfth (the standard)

down to 79 20.

By a great multitude of experiments, Mr Hatchett found that. of all the metals, bifmuth has the most powerful effect in destroying the ductility of gold: That lead and antimony are little inferior to bismuth in this respect: That less than 1030 of these three metals is fufficient to render gold brittle: That nickel is less injurious than any of the semimetals; and that tin, which has generally been supposed so peculiarly destructive of ductility. as to render a mass of gold brittle, of which it did not sensibly increase the weight, possesses no such property when persectly free from admixture of other metals: That gold may be made standard with iron, and retain its ductility, though its hardness is increased, and its colour changed: That all the metallic substances, except filver and copper, are injurious either to ductility or colour, or both; and, however excellent alloys thefe two may prove when pure, the smallest admixture of the metals most injurious to ductility, will render them unfit for the purpose: That gold alloyed with filver, or copper, or tin, may be fused without loss from volatilization or oxydation; but that a confiderable loss of weight is produced from these causes in the fusion of other alloys of gold. The general conclusion from the whole of this elaborate course of experiments, is decidedly in favour of the two alloys, copper and filver, already generally used, by which test soever we try them-whether by their essets on the colour, on the ductility, or on the fulibility of the mixture. These metals alone give a compound, exactly resembling gold,

gold, in the three important properties of external appearance, capacity of being wrought, and capacity of being melted without loss.

Besides the sacts just now mentioned with respect to alloys of tin and iron, the sirst part of Mr Hatchett's inquiries have suggested a variety of new chemical observations, chiesly upon the union of gold with arsenic and with manganese.

The next object was, to examine, with great minuteness, the fpecific gravity of gold differently alloyed, and to point out the

causes of those variations to which it is liable.

Mr Hatchett has given the refults of his comparisons in the form of a table, exhibiting the specific gravities of the gold when alloyed with the different metals. The most singular sact which this table presents, is the effect of lead and bismuth upon the gold which they alloy. Although their specific gravities are extremely different, they produce, by mixture with gold, compounds nearly equal in specific gravity. Gold of the specific gravity 19.172 alloyed with lead (spec. grav. 11.352) was of spec. grav. 18.080; with bismuth (spec. grav. 9.822) it was of spec. grav. 18.038; with filver its specific gravity was only 17.927. Mr Hatchett's table points out other analogies between bismuth and lead, and other diversities between the specific gravities of simple and compound metals.

The next table contains a comparison of the changes produced on the bulk of gold by various alloys. The greatest contraction appears to have been produced by tin, and the greatest expansion by a mixture of lead and copper. A mixture of tin and copper produced the smallest contraction; cobalt, and a mixture of copper and zinc, the smallest expansion. The expansion produced by silver, was less than that produced by any single metal, except cohalt. In both these sets of experiments, the proportion of

the alloy was that of the standard.

From a great number of experiments on the variations of specific gravity, our author concludes, that the same mass varies in specific gravity according to the mutual diffusion of the metal and the alloy, and according to the degree of friction which, though equally mixed, it may have sustained; and that it may even vary in quality, although all of the same specific gravity.—

All these experiments, which are too numerous for any abridgement, completely justify one conclusion,—that it is absurd to estimate the value of the coin of any country by insulated experiments of a sew pieces. Mr Hatchett also disproves the statements of many authors relative to the specific gravity of fine and standard gold, from which some have inserved the inseriority of the standard gold in the present reign. It appears, on the contrary,

trary, that the average specific gravity of the gold coin, at present. in circulation, is confiderably greater than that of the same coin in former reigns. As illustrative of the errors into which authors have been led by reasoning from a few experiments on this subject, we may mention the inference of Mr Briffon, that the specific gravity of the gold coin of France is greater than that of the English gold coin. He drew this conclusion from examining a fingle guinea, and from finding that its specific gravity was to that which he had found for the French gold, 28 17.629 to 17.647. Even admitting this experiment to have been conclusive with respect to the whole coins similarly alloyed, Mr Hatchett proves. yery clearly, by his own observations, that the different proportions of filver and copper in the same portion of alloy, may vary the specific gravity of the compound between 17.027 and 17 157. The experiments, on the other hand, by which the officers of the mint proved that the coin of this reign is better than that of the former periods fince the Restoration, were made with a cree 170,000 guineas taken promiteuoully from the different reigns.

The last inquiry into which our author entered, was undertaken. in order to compare the effects of friction upon gold coins differently alloyed. As the pieces of gold currency are exposed to rubbing either against each other, or against silver and copper, or against sand and other gritty powders, each of those cases has been examined by a feries of experiments with proper apparatus. The friction of different alloys, and of different dies, was compared by means of two frames in which the specimens to be examined were fixed, each above another, with a fuperincumbent weight. motion backwards and forwards in every direction was communicated to the frames by a windlass and cranks. All the pieces were pressed by the same weight; they all moved equally, and bore flat each against another; and an account could be kept of the quantity of friction, by the number of revolutions which the wheels of the windlass performed. Mr Hatchett exhibits, in tables, the results of the various experiments made with this apparatus. It appears from these, that gold made standard with copper and with filver, fuffers less by friction than gold of 22 carats 32 grains; that gold made standard with a mixture of copper and iron, or copper and tin, fullers a great deal more than fine gold; and that dies, of whatever alloy, rubbed against each other, suffer more if rough than if smooth; that, cateris paribus, the more ductile metals are worn by the harder ones, which become coated by them; that copper, rubbing against copper, suffers a much greater diminution than gold against gold; that standard gold, if ductile and foft, suffers less when rubbed against the same, than harder and more brittle standard gold when rubbed against the

wear,

same; that when soft and hard gold rub together, the former loses most. All the experiments leading to these conclusions were made with very long continued friction, under a weight of above three pounds eight ounces on each piece; and the absolute loss which the standard gold sustained was trifling. The loss must, of consequence, be extremely small which the currency sustains by the rubbing of the pieces one against the other.

The next experiment was made in order to compare the losses sustained by differently alloyed kinds of gold, in knocking together irregularly, and tumbling about drawers. The apparatus consisted only of a square box of oak wood enclosing the pieces, and turned round by a windlass. This experiment confirmed the general results of the others: the soft and ductile gold suffered more when rubbed against a similar compound of gold; but the roughness or smoothness of the surface made no variation upon the result.

In order to ascertain the comparative effects of the friction produced by powder, sand, &c. on differently alloyed gold, the pieces were fixed in a frame, and pressed upon a horizontal plane which moved round, and exposed to the metals a shallow groove filled with the substance that was to be rubbed against the metals. Whiting, sine writing sand, filings of gold made standard by copper, and strings of iron, were successively put into the groove. In all the experiments, the finest gold, and most ductile alloy, suffered most from the friction; and, cateris paribus, the stamped dies suffered more than the slat ones.

From the whole of the experiments upon friction, it may be concluded in general, that when coins of the same quality rub together, the most ductile suffer the smallest diminution; that when coins of different qualities rub together, the most ductile are worn by the harder; and that earthy powders and metallic filings wear the most, in proportion to their ductility; the extremes of hardness and ductility being unfavourable to the durability of the impression and the preservation of the weight. Mr Hatchett's experiments feem to prove, that the standard of 22 carats is extremely well adapted to the purposes of coinage; and as filver and copper are the only alloys that can be used, the question is reduced to the comparative merits of these two metals and their mixtures. Gold alloyed with filver, though preferable in feveral points of view, is exceptionable, on account of the expence, the paleness of colour, and the waste arising from ductility. Hatchett feems rather to incline towards gold alloyed with sopper, as it is little inferior to that alloyed with a mixture of fiver and copper. But he is most decidedly of opinion, that there does not appear the shadow of a reason for imputing to wear, the loss said to have been lately sustained by the gold curvency of this country. His whole experiments lead indeed, with uniform clearness, to this conclusion, that whatever may be the comparative merits of the three alloys, silver, copper, and a mixture of the two, the absolute loss must be very trisling which the standard gold formed with them can sustain in the course of fair circulation.

If any thing could render this very admirable and interesting paper more valuable, to such as may be desirous of comparing the political inferences which it suggests, with the experimental grounds of Mr Hatchett's conclusions, it would be the addition of a more general table, exhibiting at one view the results of all the three sections into which the inquiry is divided.

ART. XVIII. Pharmacopoeia Collegii Regii Edinburgenfis. 8vo. Ediaburgi, apud Bell & Bradfute. 1803.

A FTER the practice of medicine was divided into different branches, and the apothecary confined himself to the preparation and composition of medicines which the physician prescribed, it became absolutely necessary that some authority should be constituted, both to determine what substances were to be kept in the shops, and in what manner they were to be prepared or compounded. At first, the direction of some eminent practitioner was generally followed by tacit consent; but rival authorities foon introduced confusion, and at last the legislatures of various civilized states authorised certain individuals or societies to prepare Pharmacopolias, containing lifts of simples, and collections of receipts, which should in future regulate those employed in the art of Pharmacy. This privilege was conferred on the Royal College of Physicians of Edinburgh in 1685. by the Scotish Parliament; and their Pharmacopoeia, of which this is the ninth edition, has always been held in high estimation in every part of Europe.

The first edition was published in 1699; and, according to the notions of the times, was overloaded with a variety of use-less and disgusting substances, such as, Cranium hominis violenta morte extincti, Secundina humana, Stercus humanum, Sec.; and dissigned with many formulas, of which the principal object seems to have been, to crowd the greater number of incongruous substances into one composition. Considerable advances towards selection and simplicity were made in the subsequent editions of 1722, 1735, 1744, and 1756, especially in the last.



In the following edition of 1774, the book acquired the form which it still retains; and although important improvements were necessarily made in 1783, 1788, and 1792, the College has again thought it necessary to revise their Pharmacopoeis, and have introduced some very material, if not beneficial alterations.

The custom of the Edinburgh College, of thus re-editing their Pharmacopoeia after short intervals, has been found fault with, as favouring the introduction of inconsiderate changes, and rendering a work, which is intended for a standard, variable in its directions, and unsteady in its principles. These inconveniences cannot be denied. Articles are introduced in one edition, which are rejected from the next, and a new language is invented every nine or ten years; in consequence of which, those who are unable to learn and unlearn so quickly as the College directs, foon cease to learn altogether; and many practitioners of eminence are obliged to have recourse to their junior apprentices for an explanation of the technical language of the day. These inconveniences, however, are, in our opinion, much more than counterbalanced by various advantages. The frequency of publication facilitates the introduction of those improvements which naturally arise from the progress of natural history and chemistry: it renders the necessary changes less violent and abrupt; and prevents the art from ever falling far behind the state of those sciences, and becoming substantially obfolete-events which must always happen, if it were only publithed at confiderably longer intervals. Finally, it is a direct fource of real improvement; for it affords an opportunity to record the discoveries of individuals, which might otherwise die with their authors, and gives rife to discussions on doubtful points which cannot fail to be beneficial to science. The truth of these affertions may be proved by an appeal to the state of Pharmacy in Paris-in that city which arrogantly boafts preeminence in all the sciences connected with it. The last edition of the Codex de Paris was published in 1758, since which time, if we may judge by the Manuel du Pharmacien of Bouillon La Grange, one of their most eminent chemists, and an apothecary by profession, pharmacy has made no progress except in the preparations which are strictly chemical.

The observations which we have to make on the work of the learned Body, now before us, will have a reference either to what they have done, or to what they have omitted to do, whether in the matter, arrangement, or nomenclature. From the lift of their fished simples they have rejected Abrotanum, Althoea, Amygdala Lagra, Anethum, Angelica Sylvestris, Aristolochia tenuis, Arten

mifia,

mifia, Arum, Afarum (by mittake, as the pulvisafari campofitus is petained), Atriplex foetida, Bryonia, Convallaria, Cubeba, Cuminum, Curcuma, Cursuta, Distamnus albus, Dulcamara, Ferrum vitriolatum, Flammula Jovis, Foenum Graecum, Fuligo ligni, Fumaria, Ginseng, Hedera terrestris, Helenium, Hydrolapathum, Imperatoria, It is paluftris, Lichen Islandicus, Ligusticum, Lilium album, Lujula, Mentha sativa, Millefelium, Millepeda, Purietaria, Pimpinella, Plantago, Prunus Sylvestris, Pulsatilla nigricans, Radin Indica Lopeziana, Salix, Santalum citrinum, Satyrion, Scolopendrium, Scordium, Serpyllum, Spiritus cornu cervi, Thymus, Trichomanes, Verbuscum, Vipera, Urtica, Zedoaria, and Zincum vitrialatum. On the other hand, they have introduced Cinchona Carribaea, Cuprum, Laurus cinnamonnum, (omitted in the former edition by mistake), Rhus toxicodendron, Rosa canina, (formerly omitted by mistake), Sulphuretum hydrargyri rubrum, Super-turtris potaffae impurus, Savietenia febrifuga, and Savietenia Mahagoni.

To the former lift many articles might certainly have been added. Of this the College feems to have been fully aware, and give a fatisfactory reason for it: 'Praestat enim copia, ut nobit videtur, quam penuria premi.' Indeed, in rejecting doubtful articles which have once been admitted, considerable caution should be used; lest by their re-admission on a future occasion, the opinions of the College acquire a sluctuating and unsteady appearance. At the same time, the admission of doubtful articles is sometimes of use in calling the attention of the public towards

them, fo that their real value may be afcertained.

To the systematic names of each article are subjoined its synonymes and the parts in use. Perhaps nothing more was absolutely necessary; but a great deal of useful information might have been added without any impropriety. It would have been attended, it is true, with some trouble, and might have afforded more opportunity for criticism; but our opinion of the College does not incline us to suppose that they would be sparing of any trouble to improve their Pharmacopoeia, or that they would prefer the negative reputation of committing few blunders, to the politive merit of communicating much information. The addition which we wish to see made to the present list of officinal substances, is a concise account of their habits, place of growth, sensible qualities, virtues, uses, and dozes. The following example from the Pharmacopoeia Rossica, of the substance which is supposed to afford the quack medicine recommended for the cure of the gout by Dr Beddoes, will show in how few words this may be done. PHYTOLACCAE berba recens, radix. Phytolacca decandra, Linn. cl. X. ord. Decagynia (vernacular name), Planta perennis in Virzinia, Italia, Helvetia, & horto nostro botanico sponte crescit. ODOR nullus. mallus. Laron ceris, correstous. Vintus anticanerosa. Ustian Concer abertus & vitia cancro-fimilia. Dosis, Sucous engreffus ## tota flirpe caloris folaris ope in speciem unquenti densatur, que sesa 🕬

folis conquassatis, pars cancresa tegitur.

We shall now notice, sirst, the omissions; then, the additions; and, lastly, the changes made in the preparations. They have omitted Axungia porcina praeparata, Millipeda ppt. Teftue offreorum ppt. Opium purificatum, Spongia usta, Conserva prunorum sylveftrium, Oleum expressum Ricini, Tinttura Moschi, Tinttura Rhoei dalcis, Tinctura Valerianae ammoniatue, Entractum pulsatullae nigricantis, Aqua fullatitia seminum Anethi, Aqua sullatitia Menthae fativas, Oleum fishatitium Menthae sativae, Oleum e cornubus reqtificatum, Aqua aeruginis ammoniatae, Antimonium usum cum nitro, and Pilulae Plummers. They have added, Infusion Cinchonae officinalis, Infusum Digitalis purpureae, Acidum acetosum campboratum. Tinctura Digitalis purpureae. Tinctura Hyosciama nigri. Acidum acetofum forte, Acidum nitricum, Aqua super-carbonatis potassae, Aqua fuper-carbonatis sadae, Sulphuretum patassae, Hydro-fulphuretum ammoniae, Murius barysae, Solutio muriatis barytae, Solutio annriatis calcis, Carbonas ferri praecipitatus, Hydrargynus purificatus, Solutio acetitis zinci, Pulvis opiatus, Pilulae aloes cum affa foetida, Unquentum oxidi bydrargyri cinerei, Unquentum oxidi bydrawyyri rubri, Unguentum acidi nitrofi, and Emplaffrum meloes melicatorii compolitum.

. The alterations in the formule which have been retained, are numerous, and some of them important. The language seems to have been carefully revised, and the directions are in many places sendered more perspicuous by the substitution of determinace for indeterminate quantities. The fuccus spiffatus conii maculats is now prepared as the other inspillated juices, without the addition of the powder. The extractum hemotoxyli Campechiani is prepared by simple decoction with water and evaporation; and the extracts of jalap and einchona are improved, by conducting the riecoction in a different manner from what was formerly directed. The proportion of sulphuric acid employed in the preparation of the nitrous and muriatic acids, is increased from one pound to fixteen ounces. The directions for the preparation of the alcebal ammoniutum certainly are not economical, if they ema even be admitted to be scientific; for, by using the carbonase of potals to decompole the muriate of ammonia, a large proportion of carbonate of ammonia is formed, which is not differred by the alcohol; whereas lime, which was ordered in the seventh edidisengages the whole ammonia in a caustic state, which is tally soluble in alcohol. A process is described, however, for.

paring the fulphate of potals in an economical manner, them refiduum remaining after the distillation of mitrosis as

The marries of antimony is directed to be prepared with the experience of antimony and fulphur, instead of the pulou algorith. The proportion of nitrous acid afed to diffelve the measury as we preliminary step in the preparation of the acction grey oxide and, red or increased, while that of improvious acid, wied in forming the fublulphate of mercury, is diministred. The muriate of mercury is now directed to be prepared by decempoling the fulphate, instead of the nitrate of mercury. In potential paring the pilula alortica, foap is used instead of extract of getter The mercurial pill is made with extract of hips and starch, instead of manna and powder of lignorice. In the come pound wills of thub irb, oil of peppermint is used instead of all of fpearmint's and the foap is left out of the opium pills.

These are the principal changes which we have observed in the matter of this work; and we are fatisfied that few of them have. been made without fufficient reason. At the same time, we much observe, that they would probably have been more numerous, and would certainly have been received with more confidence by the public, if, by a remarkable regulation of the College, its meanbers were not prohibited from deriving any emolument from the practice of pharmacy. This prohibition, we are convinced, has. materially retarded the progress of that department of medical fcience in this country; for the deleoveries made by those who practife it mercly as an art, are feldom communicated to the public, but are tather carefully concealed from their rivals in the profession; while the improvement of pills and plasters, although of great utility, is not in itself an object of sufficient interest to engage the attention of the experimental chemist. Corporations. have often been blamed for attempting to extend their monopolitic too far; but this is the only infrance we can remember of a chartered fociety voluntarily duminishing the privileges of its members, in opposition to their individual interest, to the wellfare of the fociety, and to the intentions of the Legillature. And fince it is certain that there privileges have not been renounced in confequence of any agreement with the other branches of the profession, we can see no other metive for the prohibition. but a militaken notion of dignity. But, in these times, when a charles the in bis chariot is it think important personage than a philosoph pher on froe, it does not appear to us that it would be in the imaliest degree derogatory to the dignity of the College, to permit its members to acquire a practical knowledge of that art, of which they are appointed by law the guardians and directors.

In the arrangement, fewer changes have been made than inlight hime been expected. The editors have now placed the Funds Hh

firming Carbonas ferri, and Ferri oxidum nigrum purificatum, aanting the metallic preparations, although they have allowed the preparations. This overfight, however, is of very little confequerice, and will not occur again, if, as we hope, the College shall distribute, more systematically, the other miscellaneous preparations, forme of them by no means distinguished for simplicity, which are arranged under this head. It is not of much importance what principles of arrangement are adopted in such a work as this; but they should be adhered to as correctly as poffible, and fhould never miflead. Some Colleges have chosen an alphabetical order, and it answers the purpose sufficiently; but, fince the editors of the prefent Pharmacopocia have preferred a more fcientific plan, they should not have classed the foeculum or matter depolited from the expressed juice of the wild cucumber among the inspirated juices, nor have swelled the lift of infusions with the Potio carbonatis calcis, which is a mixture, or the Aqua calcis, which is a faline folution, or the Muvilages, which

should form a class by themselves.

The changes in the Nomenclature, are much more numerous and important; and in adopting these, the College seems to have been guided by the most comprehensive and enlightened views. They have not, as on former occasions, contented themfelyes with correcting obvious errors, and introducing occasional improvements; but they have attempted a complete reform on general principles. Their fole object has been, to give to medicinal substances such titles as may easily and readily express their real nature and composition. To attain this object, they have bestowed upon all substances derived from the animal or vegetable kingdoms, the names which they possess in the most approved lystems of natural history; and wherever it was applicable, they have used the language lately introduced with fuch evident advantages into the science of Chemistry. when we confider that Materia Medica and Pharmacy are but branches of Natural History and Chemistry, or rather that they hay be defined, the application of these sciences to the purposes medicine, the propriety of these principles, in an abstract point of view, tines not feem to admit of doubt. But fince other names have already received the function of custom, it may still be quellighed whether a reform, conducted on their indilputable principles, be altogether practicable. If its practicability can be proved, all other objections to its expediency will be eatily removed; and, that it is practicable to a certain extent, is proved in the present work. The principles might perhaps have been



given for not doing to, are, in our opinion, just and satisfactory. Left the titles of fome medicines should become too bulky and complicated, they have attempted to express, by them, only their active and effential conflituents. For the same reason, they have prescrib d some simples in common use, as Opium, Moschus, Cafforeum av Creeus Anglicus, by their officinal names, thinking it sufficient to point out, in the catalogue of the Materia Medicas the animals and vegetables from which they are obtained. They have also left unchanged, some names, such as Tincture and Spirit, which, although fearcely chemical, have been long in common use in Pharmacy. But although, upon the whole, the Edinburgh College have given an excellent example of a reformed pharmaceutical nomenclature, we think it may still be useful to explain, more minutely, the principles on which it feems to have been formed, to show what it would have been if they had been strictly adhered to, and to ascertain the rules by which exceptions may be regulated.

The general principles are,

1. The officinal names of all fubstances employed in medicine should be the same with the systematic names.

2. The titles of compound medicines should indicate the na-

ture of their composition.

To carry the first law into effect, it feems only necessary to felect the systems which are to be followed. The new chemical nomenclature is so ingeniously contrived, and so well adapted for general use, that there does not appear to be any objection to employing it without limitation. On the contrary, for the purpoles of Pharmacy it is rather deficient; the authors and improvers of that nomenclature, not having extended it as yet for far, as to express some very common forms of combination in a manner at all confistent with the brevity of a name. Some obfervations which have occurred to us on this subject, will be introduced with more propriety hereafter, when we speak of compound titles. From the received chemical language, we meet with very few deviations in the present work. In general, they have expressed, with great nearness, the relation between the acid and base in compound salts, in which either is predominant. by prefixing the particles fub or super to the name of the acid. There are, however, fome exceptions. Boras fodae should have been Sub-boras sodae; Carbonas petassae, Sub-carbonas potassae; and Sulphas aluminae, Super-sulphas aluminae.

In some triple salts they have omitted the name of the less important base. Sulphus alumina is the super-sulphus alumina et potassa of chemists; and Tartris antimonii should have been Tartris antimonii et potassa. The great length of these names is not

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a fufficient objection; for if, on any account, we deviate from the names adopted by chemists on rational principles, we are retaining distinctions between the language of Chemistry and Pharmacy, the progress towards the abolition of which, is a striking merit of the New Edinburgh Pharmacopoeia. Besides, the names now adopted actually belong to other chemical substances . and if the proper names are too inconvenient, we would prefer their old fynonymes, Alumen and Tartarus emeticus. Ammoniaretum cupri means a combination of oxide of copper with ammonia; but, as in the substance to which that name is given, the whole of the fulpuhric acid contained in the fulphare of copper is still present, Sub-fulphas cupri et animonia would perhaps be more correct. Simple names thould be given to simple substances; but we find vinegar named Acidam acetofum—dittalled vinegar, Acidum exetofum diffillatum-and vinegar, in that concentrated state in which it is obtained by decomposing the acetates, Acidum acet sium farte: whereas, the last, being the most simple state, should be Acidum acetosum or rather aceticum; distilled vinegar, Acidum aceticum dilutum; and common vinegar, Acidum accticum impurum.

Adjectives ending in -atus, derived from the names of chemical fubstances, denote, according to Mr Chenevix, the latest reformer of chemical language, that their substances are acidified and in the state of combination. On this principle the terms Ammoniatus, Camphoratus, Sulphuratus, and Opiatus, used by the Edinburgh col-The excellent memoir of M. Proust on lege, are objectionable. the fulphurets of antimony, published fince the Pharmacopeia, naturally fuggefts fome improvements on their nomenclature. has found that the old Vitrum antimonii and Crocus antimonii are both combinations of fulphuret of antimony with oxide of antimony; but that, in the former, it is only one ninth, and in the latter amounts to one fourth of the compound. These differences in proportion might be marked, by naming the glass, Oxidum antimonia cum sulphureto, and the Crocus, Sulphuretuin antimonii cum oxide, instead of Oxidum antimonii cum fulphure vitrificatum, and Oxidum

antimonii cum sulphure per nitrateni potasse.

The general principle of adopting the systematic names of animal and vegetable substances, is liable to more objections, of which the most obvious is their inconvenient length for to the name of the genus and species, that of the variety must be often added, and almost always the part or production in use must be indicated. Thus, to express simple substances, we should say, Gumina refina Aloes perfoliatae Socotorinae, Moschus maschi moschiferi, Oleum volatile nuclei fructus myristicae meschatge.

these names conveniently. The most obvious method is, to omit those

those parts which are least necessary; but, unfortunately, we have no very general rules for determining these, and must be guided in our felections entirely by circumstances. When varieties are mentioned, the specific names may be almost always left out, as, Aloes Socotorina for Alces perfoliata Socotorina. In some instances, when feveral species of the same genus are used indiscriminately. the specific names may be omitted. Thus, it is sufficient to say, Refina pini, Oleum volatile pini. The specific name may be also omitted when it is not characteristic, and when only one species of a genus is officinal; as lutea after Gentiana, officinale after Guniacum, &c. But where the specific name is characteristic, it is better to omit the generic name: thus ferula and cucumis are left out, while affa foetida and colocynthis are retained. when there are more species than one in use, the specific names, when characteristic, are enough. Catechu, Benzoin, Jalapa, Seammonia, are fusiciently distinctive, without Mimofa, Styrax, and Convolvulus. The part or nature of the productions of organized bodies may be always omitted from the titles of their compounds, unless there be similar preparations of different parts or productions of the fame fubftance. Thus we fay, Cortex Lauri cinnamomi and Tinclura Lauri cinnamonii, Refina Guaiaci and Tinctura Guaiaci : and in a few cases, when the nature of the production is peculiar, its name alone is thought sufficient, as Camphora, Moschus, Opium, without adding Lauri camphorae, Moschi moschiferi, and Papaveris formiferi. It would also be better to use the specific names of substances whose origin is unknown,, as Kino, alone, than give them any false or incorrect appellation.

In describing the preparations and compositions, it is impossible to be too minute in pointing out the part, state, variety, and, in general, every circumstance useful to be known with regard to the several ingredients; but in the titles of the compositions, such minuteness would be inconvenient; and therefore we must endeavour to render them sufficiently short, and at the same time characteristic. To investigate the means of attaining these ends, we shall consider the titles of compound medicines as consisting of two

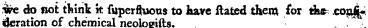
parts.

The first part is commonly descriptive of the form, as Pulvis, Pilula, &c.; 2dly, Of the nature of the substance, as Oleum volatile, Succus empressur, &c.; 3dly, Of the menstruum, as Aqua, Vinum, &c.; br, 4thly, Of the menstruum and mode of preparation, as Insulum, Spiritus, &c. Of these, the first is a strictly pharmaceutical mode of expression, and is not liable to error in its application; the others are mostly chemical, and suggest some remarks. The epithets, fixed and volatile, adopted by the Edinburgh College, mark the distinction between the two classes of oil more characteristically than expressed and distilled; but they have carried

ried their principle too far, in calling the expressed oil of Macs a fixed oil; for it is, in reality, a compound of fixed and volatile. off, and the latter is the predominant constituent. The natural combinations of refin and volatile oil, which were formerly called Tempentines, are now denominated by the Edinburgh College Refens, but, we are disposed to think, incorrectly; for resingles term appropriated by chemists to one of the constituents, and cannot therefore be applied with propriety to the compound. Now, as the College have diffinguished refins, when combined with a finall quantity of benzoin, by the name of Ballums, it appears to is, that the old expression Turpentine should be retained to denote compounds of refin and volatile oil. Indeed, it is remarkable, that the College still call the latter conflituent, Oleum volatile terebinthinge; more especially, when another name, Oleum volatile pini, might have been given, in strict conformity with the principles

they have generally adopted.

The third and fourth method of denominating compositions, demand particular attention, as they form a very important branch of chemical nomenclature, which has not yet been investigated. According to the law that the titles of compound bodies should express the nature of their composition, it is obvious that those of folutions should consist of the names of the solvent and solwend, properly combined. In other compounds, the chemical neologists have added to the name of the genus or acid, the genitive of the species or base, as Sulphus baryte. In the same way, the names of the folvends, in the genitive, might be combined with the name of the folvent. This, in fact, is the manner in which the London College has expressed the solutions of saline bodies in water; but the other colleges use sometimes aqua, sometimes liquor, and fometimes foliation nor has the principle been extended by the London College to other cases. If strictly adhered to, aqua should form a part of the title of all solutions in water, alcohol of those in alcohol, and oleum of those in oil. But this is not futhcient for the purpoles of pharmacy; for we often wish to express the manner in which the solution is made. This may be done, either by the addition of an epithet, or by giving different terminations to the radical word, or by prefixing to it the first syllable of the epither as a characteristic proposition; as In. for folutions prepared by infusion, Dec. by decoction, and Diff. by distillation. On this last principle, In-agua should be substituted for infusion, Dec-aqua for decoction, and Diff-aqua for agua diffillata, In-alcohol, or simply alcohol, for Tinctura, and Diff-alcohol for Spiritus. But although thefe, or some such mode of expression, are what we would be led to by general principles, their harshness, and other objections to which they are exposed, to us prefer the terms at prefeut in ule. At the fame time,



The second part of the title of compositions, consists of the name or names of the ingredients or folvends. In one case only, when there are feveral ingredients possessing similar and equal virtues, the conclusion of the title is taken from the virtues, and not from the substances, as pulvis amoraticum, alcohol ameniatum foetidum. When there are several ingredients in a composition. it will in general be fufficient to introduce the name of that only on which its virtues principally depend, with the addition of the adjective compositus. But this very convenient word must be used as feldom as possible, and never when there are only two active Thus, Tinctura castorei et assa spetida would be more descriptive than Tinctura castorei composita. When the names of two ingredients are introduced in the same title, it is in general better to connect them by the conjunction et than cum. For example, Tinclura saponis cum opis implies that opium is added to tincture of foap, whereas the composition is a tincture of foap

and of opium, Tinetura faponis et opii.

We have given a more detailed account of this work, than fome of our readers may think necessary; but the authority with which it is invefted, entitled it to attention; and the refult of our criticism is more honourable than any unqualified eulogium. Many of the trifling inconfistencies which we have pointed out, may be reasonably accounted for by the work being the production of a Society. For, in cases like the present, where there could be no beneficial division of labour, the number of persons engaged must rather impede than facilitate the execution. Where a contrariety of opinion exists without any controuling power, it generally happens, that, instead of reconciling them by avoiding the extremes, a kind of compromise is made, by every one retaining certain favourite points, and in return admitting others totally inconfistent with them. These inconveniences have always been felt; and accordingly, we believe that the publications of learned Bodies are most frequently entrusted to the care of a Select Committee, and, in some instances, to a single individual In whom they have sufficient confidence. But whether the prefent work has been the production of an individual, of a Committee, or of the College at large, its general excellence is indifbutable:



the House of Lords, November 22. 1803. By R. Watson, Lord Bishop of Landass. Second Edition. pp. 46. 8vo. London, Cadell & Davies. 1803.

THE defervedly high reputation which Biffrep Watfon has obtained in the literary world, and the liberality, of which he has exhibited to many specimens in the field of controversy, induce us to pay the highest degree of respectful attention to every thing that comes from his pen. We trutt it will not be deemed inconfishent with such sentiments of respect, if we express some regret that he should now condeseend to a popular discussion of certain political topics, infinitely below the dignity of his frientific powers indeed, but apparently beyond the sphere to which his studies in this department have extended. There is little in this unspoken speech calculated either to edify or to rouse. ftyle and manner are not remarkably original, nor are the illustrations diffinguished by any peculiar felicity. The general political doctrines, what we usually call the political principles, are, no doubt, perfectly found, and the polemical matters touched upon, are treated with admirable temper and candour; but the topics of confolation to which the Reverend author reforts, are in the laft degree chimerical; his advices are vague, and even extravagant we had almost said thoughtless. The practical expedients which he recommends in the prefent crisis of officers, are evidently inconfistent with a sober view of the circumstances, and repugnant to the most obvious principles of political economy.

The exordium and peroration of this speech are so peculiarly adapted to the circumstances under which it does not come before us, and are so much at variance with the fact, of the speech having been written for publication, that it requires all our reverential feelings towards the author to suppress a smile at the incon-

gruity.

'My Lords—In obedience to his Majesty's commands, and in compliance with my own fense of public duty, I this day appear in my pige in the noblest assembly upon earth, convened by the most gracious Monarch that ever sat upon a throne, and required to deliberate upon the most important subjects that ever occupied your Lordships attention,

or that of any of your predecessors in this House.

I, my Lords, could have been well contented to spend the little remainder of my life in retirement, and buried in obscurity; industreent, alike, to the calls of professional emolument, and professional ambition; but I cannot be contented to remain indifferent to the summons of my Sovereign, in a time of distress; deaf to the calls of my Country, when its sistence is endangered.—Endangered we all know it to be; but the calls of my Country is to be the calls of my Country when its sistence is the dastardly soul (none such, I am considert, is to be most units).



fold

with amongst your Lordships; none such, I hope, is to be met with amongst any of those in whose hearing I now speak)—Where is the dastardly soul, who accompanies his prospect of danger with a feeling of despair?

After describing some of the evils which would follow a successful invasion of this island, in very glowing language, sufficient, indeed, to animate with British seelings any one who may still be infane enough not to deprecate from the bottom of his soul the most calamitous of all imaginable events,—his Lordship thus

brings his intended oration to a close.

Such, my Lords, would be the final event of a fuccefsful invation of this country by the republic of France. I have in fome degree described it, but I do not in any degree expect it; I expect the direct contrary. My hope and my firm expectation is, that, instead of success, the enemy will experience defeat; instead of triumph, disgrace and ruin;—that, under the good providence of God, the arms of Great Britain will not only preserve our own independence, but be instrumental in exciting the spirit of other nations to recover theirs, and eventually contribute to the establishing the true liberty, and promoting the true prosperity, of France itself—But on this subject I forbear.—

And now, Huffrious Peers of this mighty empire! Venerable Fathers of our most Venerable Church! I beleech you, individually, to pardon me, if, in the warmth of my zeal for the public fafety (never more endangered than at prefent!) any expression has escaped me, unworthy the dignity of your rank to hear, unbecoming the decorum of my station to utter. Little more can be expected by the country from a man of my age, except from his prayers; and mine shall never be wanting for

its prefervation, and for peace among mankind.

We are informed in the advertisement, that it was Bishop Watfon's 'full intention to have delivered the substance of the speech
in the House of Lords; but that, as he proceeded, he found it
impossible to comprehend, in a thort speech, all he wished to state;
that he was unwilling to take up the time of the House with his
speculations, and therefore has adopted the present mode of giving his sentiments to the public.' We shall now lay before our
readers the result of these speculations.'—The substance of there
appears, indeed, to have been long, if not accurately, weighed
by the Reverend author; and in behalf of the most objectionable
of his propositions, he cannot surely plead the pressure of other
cares, or the hurry of extemporary composition; for it is now
fix years since he gave it to the world in another form.

After some splendid declamation, in our apprehension not very necessary, against the conduct of that people whose spirit of universal domination has left them without one sincere friend, and whose mean submission to domestic tyranny has essaed the transient admiration excited by their conquests, our author proceeds to un-

fold his opinion upon the measures fit to be adopted in the present entire of British affairs—' those means which, in addition to our present exertions, may help to avert the catastrophe from out selves.'

The first expedient which he suggests for the salvation of the country, is, that the first class under the Defence Act should be called out, and trained to arms, not merely as a temporary meafare, but in all time coming, after the danger which now threatens us shall have passed away. It is, no doubt, a little singular, that one of his grand remedies for a present and pressing evil, should confift in a plan of future amelioration. Britain is attacked by the most powerful and victorious nation in the world; she is left to fight single-handed against all the force that such an adversary can fend out; the other states, either jealous or overawed, stand back to wait the iffuc of the combat; in a few weeks, this momentous strife is to be decided on our own shores; the case has become extreme, beyond the reach of all former calculation; we meet the emergency by proportionate exertions; and, left to the strength of our own arms, we are calling forth all our domestic resources, in hourly expectation of the tremendous affray.—Yet all this, fays Bishop Watson, avails you nothing # you must continue a similar degree of active preparation after the crifis has terminated favourably; -- you must become more a military people;—this is your only chance of being faved. But, let us fee what is this nostrum which is prescribed during the paroxysin of disease, and is, it would appear, to effect a present cure by a subfequent improvement of the constitution. Our author proposes, that, annually, 50,000 youths, who had attained the age of 17 during the preceding year, should be called out and taught the use arms; and that, after fix years, they should be distribled as fieriti, except when the public service required their allistance. The this manner, he thinks a body of 300,000 young men would eafily be trained in fix years, and, after that, a constant succesfion of the same number would be kept up; so that the nation might become fufficiently military, to defy all its enemies, by drilling a portion of its youth a few days every year.

This project, as thus described, impresses us, in the first place, with a very unfavourable idea of our author's skill in political antichmetic. How could be imagine that, by annually raising 50,000 men, we shall have a force of 300,000 at the end of six years. He cannot reasonably expect that there should remain more than 260,000 fit for service, allowing for deaths, casualties, and emigration. But, admitting the same numbers always to be kept up, by there we means 3—it is not surely a few days training that cannot be action sufficiently military to cope with the bash sand-

ing armies in Europe. If, on the other hand, this militia rotation proposed as a succedaneum for the ancient militia, and not for the standing army, it is scarcely conceivable that our author should think of embodying a military force of fuch extent by compulsion, without the admission of substitutes; and if it is only intended to fuperfede the extraordinary modes of defence, by volunteers, or a levy en masse, we are at a loss to perceive any great novelty in the plan, unless that it very much limits the extent of the usual methods of arming the people, by beginning with a fmall number of recruits, and teaching that art gradually to a few, which ought as foon as possible to be communicated to all. We suspect, that if our author had purfued the idea with his accustomed acuteness and precision, his project would have terminated in a recommendation to encourage as much as pushble the volunteer system, or perhaps to enforce the general Defence-act in times of peace, as well as in the prefent critical moment; and whatever may be the merits of fuch counfel, we cannot very well perceive that its originality claims the folemn statement with which he honours it in their pages.

Another expedient fuggested by the Reverend author, is to conciliate the Irith Catholics, without irritating the Protestants; and his ideas upon this subject are so truly enlightened and liberal, that we cannot sorbear extracting the passage, which contains the only definite plan sketched out by him for accomplishing the very

defireable object in view.

One circumstance in the situation of Ireland has always appeared to me an hardship, and that hardship still remains undiminished. always thought it an hardship, that a great majority of the Irish people should be obliged, at their own expence, to provide religious teachers for themselves and their families. I have the copy of a letter, in my possession, to the Duke of Rutland when Lord-Lieutenant of Ireland, in which I prefied upon his confideration, the property of making a provision for the Catholic bishops and clergy in that country; and I have been affured by men, well acquainted with the temper of the Irish, that had fuch a measure becasther judiciously adopted, a rebellion would have been avoided, and Ireland would long ago have been tranquillized. Whether the time for trying such a mean of tranquillization be now to paffed that it cannot be recalled, I know not; but whether it be fo passed or got; the measure itself, being sounded in justice, is not unworthy the confideration of Government. I love, my Lords, to have politics, on all occasions, founded on substantial justice, and never on apparent temporary expedience, in violation of jultice; and it does anwear to me to be just that the religious teachers of a large majority of a flate should be maintained at the public expence-

The you would make men good subjects, deal gently with their exdensity gives them time to get rid of their prejudices; and especially take. be inflamed by passion, or may mistake their pertinacity for a virtue, of may be misled by bad associates; but leave them no just ground of complaint, and their abstrations from rectitude of public conduct will never be lasting; truth and justice, though occasionally obstructed in their progress, never fail at length to produce their proper effect

Inflice, I think, may be done to the Catholics, without injustice being done to the Protestants.—The Protestant clergy may continue to possess the tithes of the country; and the Catholic clergy may be provided for from the public exchequer of the empire. I see no danger which would arise to the Established Church from some such arrangement as this; and it would, probably, be attended with the greatest advantage to the state. We think the Catholics to be in an error; they think the same of us: Both ought to restect, that every error is not a criminal error, and that their error is the greatest, who most err against

Christian charity. ' p. 25. 26. 27.

In order to effect the same great purpose of securing unanimity among the different religious persuasions of this island, by meafures of justice and moderation, our author next recommends, in very powerful language, the repeal of the Test and Corporation Without expressing the slightest suspicion of the Dissenters, and without wishing to exaggerate their numbers, he thinks them too loyal to be treated with diftrust at any time, and too numerous to be foured by neglect at this time.' Now, whatever may be our opinion with respect to both of these grand questions, we will venture to affirm, that a more fingular idea never entered the mind of a practical statesman, than that of obtaining unanimity in a feafon of imminent public danger, by stirring a discussion of the points at issue between contending sects. If, by the force of reason, Bishop Watson believes it possible to bull the jealousy of the Irish Protestants and English Highchurch-men-if he thinks a vote of Parliament, in direct opposition to all the rooted prejues of those powerful parties, will be received with perfect contentment by them, as well as hailed with exultation by their adversaries—then may he expect, from the adoption of his propofal, an augmentation of the cordiality which now univerfally prevails from a suspension of the controversy. But surely when the enemy is at our gates, and when happily no backwardness is displayed by any fect in the preparations for repelling him, it would be a strange policy to lay down our arms, and set about investigating grievances, in order that we may increase the cordiality of a small part of our people, by alienating, or at least irritating, all the reft. At another time, it would not become Parliament. to regard the prevailing prejudices which have to long oppressed. the diffenting interest, more especially in the fifter kingdom. in the prefent critical emergency, all prejudices are to be weighed By the proportions of these whom they sway; and what our sethor terms the 'neglect of the Difference,' is only the falutary, waving of a discussion, that would certainly estrange one great body of men from the common cause, in whichever way it might

happen to terminate.

Hitherto we have only feen our author recommending expedients of defence, which are by no means original, unless in the fingularity of their application to the actual fituation of affairs. We now come to his linancial feheme, by far the most striking of the whole; and surely as nevel in itself, as extraordinary in the moment of its suggestion. Eithop Watson proposes that we should take the present opportunity to pay off the whole of the national debt*. He urges, in behalf of this bold scheme, a good number of declamatory reasonings; such as, the terror with which so grand an operation would strike our enemies, and the advantages of lessening the great imposshume growing on the body politic, before its bursting proves fatal.

Leaving such vague topies, which we confess ourselves not altogether able to comprehend, we wish to extenine a few of his more plausible arguments in favour of the great measure. It would, he maintains, lessen the luxury of all ranks; it would preserve the middle classes of the people from the ruin, or emigration, to which enormous taxation is reducing them; and it would save money to all who pay taxes, by freeing them from the burdens which are imposed, in order to defray the charges of manage-

ment.

Of these effects, which our author supposes would follow the redemption of the national debt, we may remark, that the two last are, in fact, one and the same thing, and are directly at variance with the first. If the measure is to lighten the burdens of the middle classes, it can only do so, by freeing their incomes from the operation of that part of the taxes which goes to pay the charge of managing the debt; and this is exactly the saving which

^{*} He qualifies the proposal by saying, or, at least, that part which has been added to it by the Seven years war, by the American war, by the last war, and by this. But, in fact, more than the debt existing previously to the Seven years war (about seventy-two millions funded) has been redeemed since the year 1786, by the joint effects of the sinking sund, and the sale of the land-tax. The latter operation has freed the sation from the burden of the interest, as well as principal, of above eighteen millions; the interest of the stock purchased by the former operation continues indeed to be paid, but would instantly cease, were all the debt, contracted since the peace of Aix-la-Chapelle, redeemed: so that we may consider the payment of that debt as a clearance of every incombrance, and the Bishop's proposal as a project for the redemption of the whole national debt.

which our author points out as the third advantage. On the of ther hand, supposing the income of individuals to gain all this part which shall thus be saved from the necessary revenue, the confequence of more easy circumstances, or a greater free income, is not likely to be the diminution of luxury. But we shall pass over the obvious inconsistency and confusion that prevails in this flatement of the argument, and compare the advantage which the plan certainly possesses, that of faving the charges of management, with the various evils-which must necessarily arise from its execution, and the unfurmountable difficulties which lye in its Bishop Watson, it may be remembered, first brought the scheme forward, in the excellent Address to the People of Great Britain, which he published fix years ago, and of which, he informs us, above 30,000 copies were circulated. We take our ideas of the plan from that tract, as well as from the present, in which, after mature confideration, he has thought proper again to urge it.

Some projects may be confidered apart from the means fuggested for their accomplishment; and we may frequently decide hypothetically in favour of a measure, without examining the means proposed for its execution; because the advantages of the end may be very obvious, while the means proposed for its attainment are exceptionable; and yet other methods may possibly fuggest themselves afterwards, when the ultimate object is allowed to be desireable. But this is by no means the case with the It cannot be viewed abstractscheme now under confideration. edly from the mode of its execution; because, admitting all the advantages ascribed to the sudden liquidation of an enormous nations debt, there is only one possible mode of effecting it-a he imposition upon capital. If the national debt is at all burdenlome, it must be irredeemable by any taxes which fall upon the national income; if it is advantageous to pay it quickly off, that rapid payment can only be made by levying contributions, which must fall upon the capital stock of the country, without the

To fuch a tax it is perhaps a fulficient objection, that it must fall permanently and ultimately upon one class only of the community—the proprietors of stock and of land. The merchant and manufacturer will be affested in proportion to their capitals, the landlord in proportion to his cliate, and the cultivator in proportion to the stock which he employs in improving the ground. All those who live upon income not make the operation of such a tax. Of this description are all amusicants and office-bearers; labourers, not mercily community workmen, whom no ordinary tax of computitive operation can finally

possibility of being shifted upon its annual revenue.

finally affect, but those who are paid in proportion to great skill and experience, acquired from long apprenticeship or the previous expenditure of capital, whose profits arise from a stock not actually extant, and who are better able than almost any other class to pay their share of ordinary contributions; traders on borrowed capital, including dealers on confignment-perhaps we may add the smaller retail-dealers, whose profits bear little or no proportion to their capital. It is evidently in the highest degree unfult, that these orders should be exempted from the operation of a tax which is intended to free them, as well as the capitalifts, from a certain annual burden; that, while the capitalist only gains by the measure the difference between his share of the old taxes and the profits he might have made on the capital which he furrenders, the annuitant should gain his whole share of the old taxes; that one class of the community should alone contribute to defray expences formerly incurred for the benefit of the whole. It may be imagined, perhaps, that the proprietors of stock will, in some cases, be able, if not to shift the payment of the tax from themselves, at least to derive fom the annuitants. who flare in the profits, an addition to their income proportioned to the contribution levied on their capital. Thus, it may be supposed that the proprietors of capital lent to traders, will demand a higher interest for the part which remains after payment of the tax; and that the stockholders who allow inferior capitalists to derive a prosit from commission, will diminish that allowance. But a little confideration may eafily convince us, that this effect never could take place. The rate at which stock can be borrowed in any country, depends, it is now understood, upon the quantity which the owners have to lend, and the extent of the demand on the part of the borrowers. Now, the imposition in question, by increasing the income of those who are not capitalists, has a tendency rather to diminish than to increase the demand of the borrowers, and, in this way, to lower the rate of borrowing. On the other hand, the quantity of stock itself not being at all diminished by the mere transference of it from the original owners to the former creditors of the public, it is impossible that the lenders can command a higher market for it than is naturally fixed by the combination of thefe two circumstances. In like manner, those who formerly traded on commission will receive configuments to the same amount, either from their former correspondents, who will now partly trade on borrowed capital, or from such of the public creditors as have vested their stock directly in business. In the one case, the former correspondents pay interest for the loan, and must allow the same commission; in the other, the consignces have

only made a partial change of correspondents. If every plantation in Jamaica were divided between two proprietors, their confignees in Britain would rather receive a higher than a lower commission, because the competition of proprietors would be somewhat increased; and if the capital of each merchant who supplies the planters with loans were subdivided in the same way, the rate of interest would be diminished, rather than increased. The same observations apply to all who derive a revenue from labour of any denomination. The capital and wealth of the country remaining the same, the demand for their services will not diminish. The yearly fund destined to support them cannot be contracted or diverted, by the circumstance of not passing through the hands of government. The perfons of this class, whose skill and industry are subservient to the employment of flock, resemble the traders on consignment, with this difference, that their capital cannot be taxed. The other persons of this description, who minister to the indulgence or weakness of the rich, may be compared to traders on credit, who fave indolent or impotent capitalists the cares of managing their returns. All these traders or labourers will continue to draw the fame income as formerly; while they are relieved, without any facrifice upon their part, from the whole burden of their present contributions to the government. One class of the community will thus become liable for the principal, in order to fave part of the charges of management, and to free all the rest from their share of the interest.

But this is not the only inequality which necessarily attends the operation of such a tax. Capitals of every extent are peremptorily affested in the same proportion; the care with which middling and inferio roprietors have been spared by all wife financiers is at an end; and the burden of the new tribute falls upon those who have hitherto been deemed unable to bear a compulsory diminution of income. Stock of different descriptions, too, will suffer in a very different degree by a lofs of the fame proportional part: So that while the landholder may fell part of his estate, in order to pay the tax, without diminishing the rent of the remaining part, the merchant is thrown entirely out of his present line of business by any considerable variation in the amount of his capital. This grievance will also fall with different degrees of weight upon different proprietors of land, and merchants in different lines of buliness: so that scarcely any two capitalists will be affected in the same proportion by the immediate operation of the affeffment, or by the ultimate confeasiences of the diminution.

he national debt would for ever after free the country from the

charges of management. But this is only true in a certain degree. The blank occasioned by the transference of capital must be, in a great measure, filled up by the creation of private debts; and the expence attending the management of these must be defrayed by the debtors. Less waste and extravagance would unquestionably attend this arrangement; the whole expence, too, would be much more limited; and a most important check would certainly be given to the influence of the Crown, deferves, however, to be confidered, that the kind of men whom this change would enrich, are not much more favourable to the peace and wealth of the community, than rax-gatherers and public functionaries, against whom such invectives have been poured forth. Attornies and pettifoggers, with the whole tribe of money-dealers, are exactly that class of the people whom a good citizen would wish to see diminish in numbers and importance: and of all the kinds of labour which some writers have denominated unproductive, the labour bestowed on litigation is perhaps the least beneficial to fociety. Besides, we confels that, fincere as our attachment is to the ancient privileges of the people, we cannot contemplate, without some alarm, so fudden a shock as the power of the Crown must necessarily receive by the change. We can call the projected reduction of patronage, by no other name than a violent change in the balance of the Constitution; and this consideration alone should have no fmall weight with us, in these times, when the unhappy experience of our neighbours has fo strongly recommended to practical statesmen that predilection, which every wholesome theory had long before encouraged, for the most gradual alterations in political fystems.

The sudden shifting of immense capital which we have now been considering, cannot sail to strike every sober reasoner with great alarm, independent of the inequality with which the shock must operate. The statement of a sew obvious circumstances may enable us to perceive how carelessly Bishop Watson, and the other projectors who so loudly declaim in favour of such measures for liquidating the public debts, have formed their opinions on this momentous subject. In contrasting with such violent schemes, the plan of gradual redemption by a sinking sund, we by no means wish to be understood as adopting for a model the particular modification of that plan which has been introduced into the sinancial assairs of Great Britain within the last twenty years. Without entering into any discussion of the comparative merits of the different sinking sunds which have been recommended, we shall refer, merely for the sake of illustration,

to that of which experience has exemplified the effects.

The public debt of this country has been contracted during feafons of difficulty and embarraffment, when the monied interest had a ready market for their capital, and the public revenue, including the funds allotted to the payment of the interest, naturally laboured under a greater or less degree of suspicion and difcredit. Partly in confequence of this distrust, and partly from the demand for money, the new lenders have always extorted much better terms than they could have procured at other times by relieving former creditors of their share in the old loans, and somewhat better terms than they could have obtained, even at those times of difficulty, by parchasing shares in former Thus, every fum of money which the public has occafion to borrow during periods of extraordinary national expenditure, that is, all the fums which the state ever has occasion to raise by loan, are necessarily procured at a very considerable disadvantage, the debtor receiving a premium not only beyond what he would have obtained by lending his money at ordinary times, but even beyond what he could obtain by veiling his money in the other loans at their present discount. Financiers have still farther increased this disadvantage, by funding in those flocks which bore the greatest discount and a lower rate of interest; and in order to diminish the amount of the taxes required for paying the interest of the new debt, they have generally ferupled little about making a needless addition to the principal.—The loans made during the American war are now univerfally allowed to have been negotiated on terms peculiarly injurious to the revenue; and it is the opinion of many impartial perfons, that, during the last war also, our finances would have suffered less had the burden of the loans been thrown more upon the interest, and had smaller premiums been given in the form of capital. But be this as it may, the fact is undoubted: that whenever the state borrows, a nominal capital of debt is created, much greater than the fums received and employed in the public service. So long as the nation is only burthened with the annuity payable upon this nominal capital, the interest at which it has raifed the money is not exorbitant, although the loans may have been made at high premiums, because the interest is confiderably under the market rate when stocks are at par. But if the principal of the debt is to be paid at par, the nation lofes the whole difference between the fums really advanced and the capital created, which in every case must be very great. Thus, during the American war, and for the payment of the furplus expences after the peace, nearly 971 millions were funded in the three and four per cents.; sometimes without any other premium than what necessarily arose from the low price of those Rocks

stocks at the time, sometimes by the grant of a premium in the form of thort or of long annuities; and, making no allowance on account of such premiums, the sum actually received for the capital added to the debt, amounted only to 751 millions. then, this debt were redeemed at par, the nation would lofe nearly 22 millions, besides a further loss on navy bills, &c. funded after the peace. During the last war, the stocks having been still lower, and the three per cents more reforted to in proportion, the difference between the money received and the capital created, was still greater. If we suppose the average price of the three per cents. to have been fixty (that is, three per cent. higher than the average at which the operation of the finking fund was carried on), the nation would lofe above fixty-three millions by redeeming at par the stock created in the three per cents, alone, previous to the 5th of April 1801, and independent of the Imperial loan. It is certainly not estimating too high the whole loss which fuch an operation must occasion, when carried through all the branches of the debt now funded, if we reckon the difference between the par, and the money advanced, at a hundred millions Sterling. Nor would it be possible to make any deduction to this amount in paying the stockholders; for, in the first place, the conflant transference of funded property prevents us from discovering who are the actual gainers of so enormous a premium; and, next, though we could get at thefe, it would be a direct violation of the faith upon which they lent their money to government. It has just now been taken for granted, that the redemption is made at par. That this will be the cafe, we cannot entertain any doubt. The necessary effect of the sudden payment of the debt must inevitably be, to restore the par in all the permanent funds, and to raife much higher than par the stock which is not redeemable, as the life annuities, and the long and thort annuities.

We need scarcely remark, how different the operation of the finking fund is in all these respects. With a pace gradually accelerated, it encroaches upon the capital of the debt; and, hardly influencing the price of stocks, it filently transfers the property from the creditors to the government. This transference is made in small portions, at different times; so that the lowest fund, or the fund which is lowest in proportion to its profits, may always be chosen. During a long war, a vast portion of the debt may be purchased by the Commissioners at a lower rate than that at which it was funded: fo that while the nation is borrowing at a difadvantage, it is in the fame degree reaping a benefit from discharging former incumbrances at little cost. Aster a very great part of the stock has been purchased by the Comli 🚣 missioners.

missioners, the remainder will indeed rise higher than it would have done if the fame stock had continued in the possession of men who often brought it into the market: But the change is fo flow, that a number of channels, now empty, must be filled, before the difficulty of obtaining employment for capital shall occasion a glut in the slock market. When a resolution to pay off the debt in four years is fuddenly formed, 3 per cents being at fixty, every proprietor knows that, by holding out, he must gain 40 per cent.; while he receives, in the mean time, 5 per cent. of interest. When the payment is effected by the slow transference to the finking fund, proprietors know that they cannot force their stock upon the Commissioners at par. In the former case, moneyed men will eagerly strive to get a share of the funds before they are near par, knowing that, by this purchase, their gain is fure. In the latter, they may gain one or two per cent., and then be obliged to fell again before the Commissioners choose to pay more. It is probable, then, that the effects of the finking fund will be, to displace gradually a part of the capital now vested in the national loans, and to restore it to the commerce and agriculture of the country; while the annuitants, who cannot engage in trade, and are anxious for the best security, being the last to fell out, will receive the highest price. The debt will thus be redeemed with as little loss as possible; and when, during a feafon of peace, the revenue of the fund shall be so great as to render the speedy completion of the transference certain, government may begin the change, by lightening the national burdens; for that, on the one hand, the enormous taxes required to maintain the process of liquidation may not all at once be repealed; and, on the other, the increased rapidity of the process may not occafion, towards its conclusion, too fudden a thifting of the remaining stock.

Bishop Watson appears not to have formed a very accurate idea of the nature and extent of the sinking sund. He undervalues its powers by not attending to the law of their increase; and he plainly mistakes the constitution of the uniform part of the fund. Thus (in his Address, p. 2.) he talks of the inefficacy of a million a year to save us from bankruptcy. He forgets that 200,000l. per annum is also granted for this service; and that, besides the old sinking sund (as it is called), a new one was established in 1793, for the redemption of debt contracted since that time. This sund, amounting to 1 per cent. on all new debts, was no less than 1,628,000l. per annum (exclusive of accumulation) when Bishop Watson sirst wrote; and now, when he repeats his doctrines, it amounts to above 3½ millions, including the interest of accumulation. It ought also to be considered, that the profits of both these

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these funds, as well as of the annuities from time to time falling into the old one, are, in the strictest sense of the word, sums appropriated to discharge the debt. They are raised by taxes, which might otherwise have been taken off as the transference of stock to the fund went on. The old finking fund, amounting now to above 21 millions, is not indeed to increase beyond four millions. fo far as it may be applied to the purchase of debt contracted previous to 1703; but the furplus may be applied to the purchase of stock fince funded; and the new finking fund has no limitation, To redeem our whole debt, then, a revenue of fix millions is yearly fet apart, with its own accumulations; and being raifed on the income of the people, by means of taxes, which, except the legacy duty and a few flamp taxes, never can be shifted upon capital; it is equally distributed over the different kinds of profit which constitute the whole national revenue. The transference of this fum to the fund, fets free a stock equal to the sum raised from the people, after deducting the expences of management. This stock will be employed in the cultivation and commerce of the country; and, so far from being afraid left the process of payment went on too flowly, a prudent statesman, supposing the nation to be at peace, would rather be inclined to check the velocity of fo powerful an engine, left it should acquire a momentum fatal to the stability of commerce. Some political inquirers have accordingly been alarmed at the extensive action of the finking fund, and have predicted very great inconvenience from its final operations. Into the general question of this species of liquidation, we do not mean at prefent to enter: we are only viewing it as contrasted with the proposed liquidation by sudden transference of capital. We may however remark, that those who have entertained the greatest apprehensions on this point, appear to have forgotten how gradually the action of the fund increases, how much it is under the controll of the state, and, particularly, that it can never fet free, at once, more than the interest of the original incumbrances. We talk of the fund accumulating, until in fo many years it has increased to fo many hundred millions; but its income can never exceed the neat amount of the taxes; and during the last year, when it has reached the maximum, it fets free exactly that amount of stock, and no more. If, instead of being raifed in taxes, this fum had remained in the pockets of the people, together with the expences of collection and management, we cannot doubt that it would have found employment as eafily as the other accumulations of profits, wages, and rents. In like manner, had the whole revenue of the fund from the beginning remained in the possession of the nation, a real capital would have been accumulated much greater than the whole debt, which . Jiz

would certainly have found an easy vent in the extension of trade, the improvement of waste lands, and the cultivation of colonial territories. But if the separation of the capital from its possessis studdenly made, a stock is accumulated in hands unable to employ it, unless by restoring it to the space which the tax has left vacant. In like manner, if the accumulation of a real capital were made, by means of a fund over and above the amount of the debt (not, of course, by means of interest), it would be impossible sud-

denly to employ it.

We have hitherto been proceeding upon the admission that it is possible to raise, in four or five years, by taxing capital stock, a fum equal to the national debt estimated at par. But a variety of circumstances concur to render this utterly impracticable. the first place, Great Britain has had some experience, and, we fuspect, is soon to have some more, of the ease with which direct income taxes are enforced—the willingness of men to disclose their private affairs—the alacrity, more especially, with which traders exhibit to tax-gatherers and fellow-citizens the amount of their gains—and the honesty which all ranks of men display in affeshing themselves according to the commands of the law. How far the same facilities would attend the execution of an act for inspecting a man's whole affairs, and withdrawing from his management a tenth, perhaps a fifth part of his entire property, we leave our author to determine. We know that the example of other nations is not perfectly flattering as to this matter. Dutch, for instance, whose capital in proportion to their revenue far exceeds that of any other people, have at different times been laid under contributions intended to bear fo great a ratio to the national stock, that the load must of necessary have fallen on the principal. It would appear, however, that they contrived always to thift it upon their income; for when the fiftieth penny was required, it was with great difficulty that the two hundredth could be raifed; and this is not much more than one eighth of their revenue, which fo frugal and wealthy a people might contrive to pay for once, by dividing it between two years.

But, in the fecond place, we shall allow that the whole proprietors of the kingdom are perfectly willing to pay fairly and openly. We imagine they would find it very difficult to make

the payment.

In February 1801, the funded debt of Great Britain, exclusive of that part which was on account of Ireland, and exclusive also of the Imperial loan, amounted to above 457 millions: and, estimating the value of long and short annuities at their rate in the market about the same time (which is much lower than the rate at which they could be redeemed), we must add 20 millions to

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the above fum. This capital of 477 millions is exclusive of the nominal capital in the finking fund; and it comprehends, of course, the 56 millions charged upon the income tax.* Although, then, we should imagine the whole addition for concluding the late war to have been only 23 millions, and should set of the whole extraordinary expence of the present war against the furplus occasioned by the first redemptions of the debt, we shall still have a fum of 500 millions to raise in sour or sive years; that is, we shall have 100 or 125 millions to raise yearly, besides the prefent 30 millions of permanent taxes, and the additional fums requifite for the most expensive war establishment with which the country ever was burthened. We have no hefitation in declaring our inability to comprehend how the first year's payment of such a tribute could be effected. 'Let every man,' fays Bishop Watson, ' be affested in proportion to his possessions, from the owner of an estate worth 50,000l. a year, down to the peasant whose house and furniture are not worth 101.' We shall pass over the confideration, that this equalization of taxes would render men liable to a contribution of capital, who have always been judged unable to pay even a portion of their income; that it would in fact be a tax on the necessaries of the poor, which, if they could by any means advance, they would, for years to come, levy on the income of the other classes; and we shall make no remarks on the fingular argument about the relative nature of all luxuries, by which bread and a coarse blanket are, in page 21, proved to be luxurious superfluities. Our present objection to the tax on capital is, that we do not fee how it can be paid; that the great landed proprietor, as well as the cottager. will find it impossible to raise the sums required; that there is no power in men of fuddenly creating a circulating medium, or any other moveable property fufficient to pay, in one year, five or fix times the fums formerly paid with difficulty. Admitting that the proprietors of all stock which is capable of subdivision, as mines. fisheries, land, and heritable or personal bonds, could immediately find purchasers for the amount of the tax, (though, when all are obliged to fell, it is not easy to perceive from whence the buyers may come), how is money to be raifed upon the fale of aliquot parts of fixed stock in trade and manufactures, as warehouses, machinery, and dwelling-houses? With respect to farming stock, as cattle and implements of husbandry, and the tools of labourers, it is abfurd to think of raifing money by the fale of them, and it would not be very eafy to borrow on their fecu-

See Public Accounts for 1801—Resolutions moved by Mr Tierney, June 17. 1801—Ditto by the Chancellor of the Exchequer, June 22.

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After the first quota of the tax, indeed, has been paid, the same money will do for paying the other quotas; because the former funded proprietors will return it, in purchase-money or in loans, to the capitalists, according as their stock may be diwifible or indivinible. But the first payment must evidently be made by the bills or other obligations of the capitalifts; and these bills being transferred by government to the public creditors, must be redeemed from them by the transference of capital, or the constitution of new obligations; so that an immense addition will be made to the fystem of paper credit, and every proprietor will be in debt, for a longer or thorter period, to some person having a right to demand payment of principal as well as interest. At present, every man paying taxes may indeed be faid to be in debt; but he is only indebted to creditors whom he can oblige to rest satisfied with an annuity, and who cannot distress him for more than his year's favings enable him to pay. The annual furplus produce of the land and labour of every commumity—the fund which is yearly added to the capital, and deftined to increase the income of the people—is the fund out of which all taxes ought to be taken. As this cannot fuddenly be augmented in proportion to the public demands upon extraordinary occasions, the system of borrowing has been invented; which, if kept within proper bounds, and combined with the establishment of a finking fund, equalizes the burthens of the state among the different fucceifions of men for whole benefit they are imposed, and defers the actual levying of the fupplies until the national flock shall have gradually accumulated to the requisite point.

In the third and last place, (for it is needless to multiply the objections which must occur to every reader), there is a large class of capitalists in a trading country, who are induced, by no particular tie, except that of protection for their stock, to remain there. The proposed tax must necessarily drive these men to fome other quarter of the commercial world, or at leaft their capital; for it would indeed be a fingular folly in them to defray. by advance, a great part of the expences of the state during forty or lifty years to come, when circumitances may in a few months render another abode, or another investment of stock, more eligible. And let it be observed, that this class comprehends the monied interest, from whom alone it would be easy, in other respects, to raise the tax on capital. Bishop Watson indeed maintains, that this class should be taxed, although their flock is vested in the funds-and this seems to be an essential part of the plan: for what could be more unjust, than that those proprietors should suddenly be freed from all suture taxes, by devolving the expence of the debt on the other capitalists?

the direct taxation of the national creditor in proportion to his debt, by refusing payment of a certain part of it, is extremely like a palpable breach of faith. We are told, however, that so long as the creditor is only made to pay in the same degree with the other capitalists in the country, he cannot complain; since, if Government pays him the whole principal, it may the next moment make him refund his proportion of the contribution; and the retention of that proportion, is only the adoption of an effectual plan to prevent the affessment from being evaded.

But three circumstances render this argument, however plaufible, completely inapplicable to the case. In the first place, it is not true that Government could levy the contribution immediately upon making the full payment which every creditor has a right to demand, when he is forced to fell his stock. A great part of the stock belongs to foreigners. Before the American war, this was supposed to be one fixth or one seventh of the whole; * and the circumstances of the nations of Europe, particularly Holland, fince that time, combined with the low price of our funds, must have prevented this proportion from greatly decreasing. To tax this funded property, would be an act of national profligacy, from which not even the character of England could recover. Secondly, The monied interest, the growth of which has been encouraged, if not begun, by the funding fystem, and the existence of which is so essential to every nation in the circumstances of Great Britain, has a tendency, and unquestionably a right, to shift from one country to another, according to circumstances. The capitalists of this class would, therefore, have an undoubted right to withdraw their stock, or to remove altogether from the operation of the capital tax. Last-In. The easy concealment of money, and the possibility of faving it from those very operations of finance which we are now confidering, forms one of the inducements to hold property in this form, rather than in the various other forms which are attended with advantages peculiar to themselves. However unfair this view may be in the individual, the government, which, on the whole, derives benefit by its influence upon the distribution of capital, has no right to complain, while loans of anticipation or funding operations are necessary parts of European sinance; and the violation of good faith to which fuch a complaint leads, would only tend to banish entirely from the country a portion of the trading capital; whereas all the arts of the posscisors can never prevent both the private and the public revenue from benefiting by its profits. We have not confidered the lofs which the nation

^{*} Pinto on Circulation and Credit, p. 33-

must fustain by the payment of the debt owing to foreigners, and the consequent removal of stock from profitable employment. This must be injurious, whether effected by the proposed plan or

by the finking fund.

Every light, therefore, in which we can view the momentous subject brought before us by the project of Bishop Watson, discloses the manifold dangers and difficulties with which it is fraught. We must repeat our astonishment at his rash, unmeasured recommendation of fuch a scheme; and our conviction, that his eager perseverance in proposing it, can only arise from his graver purfuits having left him little time for political inquiries. With the highest admiration of his talents and character, we feel great respect for the motives to which the present publication owes its origin; and agree with him in wishing that it may have a beneficial effect. But as it is addressed to the nation at large, and as its only object must be to rouse the public spirit in the common cause, we must take the liberty of fuggesting, that, if such a thing were wanting, it is not likely to be secured by the description of military or financial schemes, especially if they resemble the projects above discussed. We should be the last of his readers to use the filly and infolent farcasms hinted at in p. 14. On the contrary, we think that more than one science would have suffered, had Bithop Watson paid a strict regard to such narrow-minded maxims as those which prohibit men from ever forsaking their professional Audies. But we may be permitted to regret that, in the present deviation from his ordinary pursuits, he has not applied his talents with the same felicity to other objects; and that, by changing his tools, he has failed to strengthen or adorn the pillars of the State, with such additions as he formerly bestowed upon those of the Temple.

Art. XX. The History of the Wars which arose out of the French Revolation: To which is prefixed, a review of the Causes of that event. By Alexander Stephens of the Honourable Society of the Middle Temple Esq. 2 vol. 4to, London. R. Phillips, 1803.

THE rapid progress of improvement in science, arts, and manufactures, has surnished topics of exultation to many modern writers, who are delighted to discover additional proofs of the superior wisdom and attainments of the present age. We are alraid we shall be accused of the most perverse blindness to the merits of our own times, if we omit to record the facts of this description which fall within our province. To avoid this imputation, we seel ourselves called upon to announce, that the manufactures

facture of books of every description appears to be daily making the most rapid strides towards perfection. The dull authors of former ages employed nearly half a century in composing an epic poem, or in collecting and digesting materials for a history. The same operations, however, are now performed in one twentieth part of the time; and the authors submit their works, with becoming self-complacency and satisfaction, to the public. Indeed it would be no small restraint on a modern writer, is, instead of the number of years prescribed by Horace, he was enjoined to keep his work out of the printer's hand for the same number of months. A historian of the old cast would probably have taken ten years to write a history of the last war; whereas, Mr Stephens has, during the course of the last war, favoured the public with two large quarto volumes, bringing down the narration to the 27th day of March 1802.

It might perhaps have been expected, that in a publication compiled with fo great rapidity, fome observations would be made on the inaccuracy to which all recent accounts are liable, and the difficulty of reconciling various and contradictory authorities. Every person who is accustomed to read history, must be aware that the most authentic and important materials seldom appear for a long time after the period to which they refer. Those persons who are best acquainted with the transactions which are carried on, are generally in no hafte to communicate them to the public. During the leifure of retirement, or in the decline of life, they fometimes compose, for the information of posterity, works which they would not have chosen to submit to the judgement of their contemporaries. It must however afford great satisfaction to the public to be informed, that Mr Stephens has got the better of all these difficulties, which in general baffle the greatest industry and perseverance. From a singular combination of talents, influence and good fortune, he is enabled to affure the public that all repositories have been laid open to him, and persons of every rank have been ready to furnish him with information. Far from complaining of want of documents, he affures the public. that, 'instead of deficiency, there is a superabundance of materials, ' (Pref. p. 4.) In another part of the preface he observes, Upon the prefent occasion I have been furnished with abundance of information, and have nowhere applied in vain; even those with whom I had not the happiness to agree in respect to opinions, have favoured me with hints, observations, and remarks.' Mr Stephens adds, 'I have also enjoyed the satisfaction of acquiring information at the fountain-head; and chiefs who have fought and gained the battles of their country, have not disdained to read and to correct my account of them. Īŧ

It would be no small degree of presumption upon our part. to find fault with the production of an author who has had the advantage of deriving his information from the fountain-head, or to question the accuracy of narratives which have been read and corrected by 'chiefs who have fought and gained the battles of their country.' We are deterred from such an attempt not only by this motive, which we are not ashamed to avow, but also by the consideration, that if we once engaged in such a task, it would prove almost endless, as there were very few parts of the narrative, indeed, which did not afford some ground for diftrust and suspicion. Some of our readers may however be disposed to write a history of their own times as well as Mr Stephens: We therefore feel ourselves called upon to give them some account of the manner in which this work appears to have been compiled, that, by following the fame receipt, they may be able to mix up a history equally long, and not much inferior, in

other respects, to that which is now before us.

In the first place, we recommend them to collect, with due fpeed, quantum sufficit of newspapers - gazettes - journals - pamphlets-memoirs, &c.; to cut them into different patches, and arrange them in chronological order. If they have done this with sufficient industry, they will find themselves exactly in the situation described in the preface—that 'there is a superabundance of materials,' and that ' selection rather than amplification is required upon this occasion.' The historian has now advanced one very important step; -but in case he should become intoxicated with his success, we beg leave to suggest the precaution of altering the cant of any of these newspapers or pamphlets, where it has become obsolete, or has fallen into contempt. We must regret that this maxim has not been sufficiently attended to by the historian of the late war, and that, in many parts of his work, he has inadvertently retained a large quantity of that revolutionary verbiage with which every person of understanding has long ago been disgusted. If any future historian shall venture to tread the same ground which Mr Stephens has gone over, we would recommend to them to be a little more sparing of the words 'tyranny' and 'despotism,' when they fpeak of the government of France before the Revolution. When Mr Stephens relates that the bufts of Necker and Ogleans were carried about the street in triumph in 1780, he observes that they had each been 'at different times the victim of defpotism, (Introd. p. 76.) Carried on by the servour of his clo-quence, our author goes even further; for he declares that France was denied even the fleep of despotism,—the only confolation which a people can derive from the degradation of fervitude.

After the incipient historian has made the alterations which we have fuggested, he may congratulate himself on having got over all the serious difficulties of his undertaking. His next object is, to impress his readers with a high idea of his penetration and powers of observation; or, as Mr Stephens expresses it in his preface, it becomes necessary to vary, by means of episodes, the fickening detail of unavailing crimes, and the languid paules occasioned by interminable slaughter.' Our author furnishes us with so many striking instances of this kind, that if we were to detail them, we should exceed the space we have fet apart for this article. One of the most important devices of that description, to which all historians, ancient and modern, have reforted, is the delineation of characters. Our author performs this part of his work with fingular adroitness; so much so, that he furnishes inflances of characters drawn in every possible style; -- some sketched out roughly with a fingle stroke; some curiously finished, and displayed at full length; and others in an intermediate or half-fimished state. As our readers may wish to receive a great deal of information in finall compafs, we quote, as a specimen of the first of these styles, the following account of Louis the XVIth's ministers :

Lous XVI. had by turns employed the frivolous Maurepas, the virtuous Turgot, the indefatigable Sartine, the politick Vergennes, the weak and tyrannical Brienne, the faulty but well-meaning Lamoignon, the amiable Malesherbes, the prodigal Calonne, the economical Necker, the wily Montmorin, and the impotent Delessart. Introd. p. 124.

Here the reader has an account of the characters of eleven different ministers of state, in much less space than would be occu-

pied with an account of the birth and baptifin of each.

The fingular character and conduct of the Abbé Sieyes have excited no imall portion of public curiofity. It is therefore extremely fortunate, that when Mr Stephens delivered to posterity the characters of the members of the first assembly, which, he assures us, 'possessed a number of distinguished members, and a collection of talents scarcely to be surpassed in the annals of any nation upon earth;' the Abbé Sieyes should appear third in the list, and the reader's eye be attracted by a marginal title. We shall gratify the eager curiosity of our readers, by quoting his character at full length. It is in these words:

Sieyes, a Catholick priest, was at once a profound metaphysician,

and an adept in logic.'

How very extraordinary, that a man who was a profound metaphylician, should also possess the qualification of being an adept in logic! But who can wonder, that a character so obviously adapted for public life, should rise into notice as a statesman, during a period of unexampled turbulence and faction?

We We do not think our author equally fortunate in some of his other portraits. In order, however, that our readers may have a fpecimen of his full-length style, we shall quote the character

of Mirabeau, who is placed at the end of the lift.

Mirabeau was affuredly the first. Possessing wonderful eloquence, & gift in him derived from nature alone, he exhibits the rare example of a man without any previous study displaying all the readiness, all the boldness, all the variety, all the graces of a veteran and accomplished oratour. Born a noble, but excluded by his own order, he became a deputy from the third eflate, and for some time sustained the popular cause, with a fluency that charmed, with a genius that astonished, with abilities that enraptured, with an enthulialm that moved, animated, electrified the hearts of all who heard and beheld him. magick of his oratory, that while he spoke, his audience forgot the scandalous immorality of his life. Such was his good fortune, that, a few short intervals excepted, he retained his celebrity even after he had been corrupted by the court. Such was his confidence, that, with a voice enfeebled by difease and death, he bequeathed a legacy of his labours on a new constitution, destined for their use, to a mourning, but applauding people!

As an author, he exhibited more zeal than genius, and more industry than talents: he declaimed rather than argued; he surprised rather than convinced: yet, although his time had been devoted to licentious pleafures, his writings were ever dedicated to the cause of honour, humanity, and virtue. It was as an orator alone, however, that he flood unrivalled. But to conceive a just notion of the effects he produced, it would have been necessary to have witnessed the astonishing bursts of his eloquence on great, or the majestick cadence of his language, and the varied intenations of his voice, on ordinary occasions. Nor were the features of his face, or the gesticulations of his person, although the one was devoid of beauty and the other of elegance, deficient in interest, unsuitable to his purpose, or inadequate to his views: for the lowering frown that wrinkled his ample forehead was calculated to appal; while the lightning of his eye feemed to blaft; the thunder of his voice, to terrify; and the vengeance of his uplifted arm, to fmite, subdue, and overcome his abashed and intimidated opponents.

We are much disposed to doubt the affertion, sthat Mirabeau possessed his eloquence from nature alone, and that he was an orator without any previous study. It is well known, that Mirabeau was a man of very great, though irregular application. Most of the speeches he delivered were previously written out; and, during the hurry of business, he frequently employed different persons to write out speeches for him; and selected, from their united labours, the materials of his oration. It cannot be believed, that a person who took so much pains to prepare himself for each appearance, and whose studies were by no means su-

Introd. vol. l. p. 105. 106.

perficial,

perficial, should have entirely neglected the department in which he excelled, and for which he was naturally adapted. Few orators indeed are disposed to reveal the studies by which they arrived at perfection in their art. They in general wish it to be believed that they are heaven-born grators. But it must require a great deal of faith, indeed, to suppose that Mirabeau had never cultivated his talents for public speaking. We do not perfectly understand what Mr Stephens means by saying, that Mirabeau, as an author, exhibited more zeal than genius. Excepting in his speeches, there is very little room in any of his works for the

display of what Mr Stephens may reckon genius.

We regret that we have not room for the infertion of Dumourier's character. Mr Stephens observes, that during one period of his life, he 'repaired to Italy, where, like the *ondittori* of a former century, he offered his sword and his services to any state or party that would employ him.' We here tound ourselves obliged to have recourse to our Italian dictionary, where we discovered that conditori are the founders of cities. Why General Dumourier, for whom our author seems to have no great affection, should be compared to the conditori, either of a former or of the present century, we are at a loss to disco er. We suffeed, that as Mr Stephens delights in historical all issons, he intended to have made use of the ord ondot ieri, with which our

readers are well acquainted.

We have already illustrated the most important points in the manufacture of hiltories. It remains for the hiltorian to shew fome talent for philosophical disquisition. That, thank God, is now a matter of no great difficulty, as the historian has nothing to do but to take fome authors who have written on the progress of civilization from the favage to the hunting state, and to add a few remarks upon the feudal fystem, serfs, villains, vasfalagethe progress of commerce, and the distinction of ranks. may be easily done, as we can recommend, for the perusal of our readers, at least twenty authors, from whom a proper quantity of this matter may be extracted; and there is one advantage of an introduction of this kind, that it may do for almost any one modern history as well as another. Indeed, a provident young man will generally write something of this kind while he is at College, which he can afterwards infert in any historical composition which he may find it convenient to undertake; or if he minces it into pieces, it may be served up in the form of effays. There is one circumstance which adds very much to the profundity of fuch a disquisition, and impresses the reader with the highest reverence for the author's superior knowledge and reading; that is, to get some uncouth word, describing fome fome unknown fact, extracted out of travels which nobody has ever read. This we think is very successfully done by our author in his preliminary observations, when he introduces the fealleg of the Hebrides, and quotes, in a note, the travels of the Reverend John Lanc Buchanan, A. M. Missionary Minister to the Isles.

In addition to these precepts, we strongly recommend to the historian, to deliver his opinion upon every subject with the most perfect confidence and decision. If he has occasion to write on military affairs, and happens to know nothing about them, we advise him to point out, in the most decided manner, all the blunders and mistakes which the different military commanders have fallen into. This is done by Mr Stephens very much to the edification of his readers; and it is to be hoped that as he has already exposed the mistakes of the Arch-Duke Charles and other great generals, if he is destined to record the events of another war, he will not have to enumerate, among other errors, the perversity of this nation in neglecting to take the advice of a man of his military experience. Upon these subjects, we are fensible of our own weakness; we shall not therefore venture to controvert Mr Stephens's opinions. On some other topics, we are less disposed to acquiesce implicitly in what he says.

Mr Stephens observes, that although Rousseau was 'fond of brilliant paradoxes and romantic theories, his pen was uniformly devoted to the cause of virtue.' Is it possible that Mr Stephens has read Rousseau's works, and can yet say that his pen was uniformly devoted to the cause of virtue? Rousseau himself does not appear to have been of the same opinion, when he declared, that a woman who read a single page of the novel of Heloise was undone. There are certainly some of his other writings

which are not more favourable to the cause of virtue.

We are not more inclined to agree with Mr Stephens in his ideas of virtue, than in his application of that of wifdom to the Girondists. He says that Robespierre acquired little or no influence over the Jacobin Society while the Girondists were allowed to give an auspicious direction to its labours by means of their wisdom, and to make its walls recent with their eloquence. We are by no means blind to the talents which some of the Gironde party possessed; but of all attributes by which they can be distinguished, that of wisdom, which is perhaps the most dignified which the English language affords, appears the worst chosen.

Upon the whole, the volumes before us appear considerably better than a mere republication of newspapers, as Mr Stephens seems to have availed himself of most of the popular memoirs which

have been published. Such as they are, their value is much increased by a chronological and general index which is printed at the end of the work, and puts the information which it contains within the reach of many persons who might not submit to the labour of reading through these large volumes. This work can only be considered as a compilation from the most ordinary materials, which may be consulted with considerable advantage, till we are possessed of a legitimate history of the interesting period it embraces. Some parts of it are not devoid of entertainment and interest.

ART. XXI. Traité élémentaire de Minéralogie suivant les principes du Prosesseur l'Erner. Par J. M. Brochant. En deux Volumes, avec 18 Tableaux & une Planche. A Paris, Tome Premier, An IX. Tome Second, An XI. 1803.

THE French have been justly reproached with their ignorance of foreign languages; they have been with fome reason accused of treating the writers of other countries with contumelious neglect, and of despising all science and literature which did not owe its origin to the genius of a Frenchman, and was not conveyed in their vernacular tongue. The study of other languages feems to have been regarded by them as a loss of time, as an infallible indication of bad talte, and as a libel against the fupereminent excellence of the indigenous literati whose works were neglected for the uncouth phraseology, barbarous idioms, and crude conceptions of their half-civilized neighbours. Those who ventured on fuch investigations, pursued them with some portion of the cautious fecrefy attached to occult fciences; and if their studies were rewarded by discovery and information, the fource was studiously concealed, while, like good citizens, they acquitted themselves of their duty to their country by publishing and appropriating their acquired treasures of informa-Without stopping to panegyrife the patriotism that practifed this imposition, to concentrate in its own country the same of all the discoveries made by the commonwealth of Europe. we may admire the ingenuity which obviated the fuspicion of this pious fraud, by vilifying the reputation of the authors who were pillaged.

Could these consederated philosophers have limited literary progress to those who united with them, this grand monopoly, for which they so patriotically associated, might have been essented. Perhaps, like other zealots, they deseated their ends VOL. 111. NO. 6.

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by the intemperance of their censures, and excited a wish to examine those writers whose works were bad enough, or formidable enough, to warrant such virulence, or to require so desperate an attack. Those, whose vulgar souls were insensible of patriotism, and the more numerous hosts, on the weak texture of whose minds novelty operated as the most powerful incitement, eagerly courted the acquaintance of these Tramontane writers, and found them less savage, less deformed, less stupid, than they had been taught to expect. The sluctuating tide of public opinion now elevated them, and their genius was sound to savour of inspiration.

What now remained for the patriots? Pious frauds would no longer fucceed, and they could only hope that indifference would follow admiration, and familiarity prove the precurfor of contempt. To hasten these desirable events, they endeavoured to render the acquaintance of the public with their foreign rivals more intimate, and to domesticate no small number of the most noted authors, by teaching them to speak the language of France, and clothing them in a fuit of Parissan finery. They found that their adversaries were only formidable, because remote fituations rendered them difficult of access; that their ideas appeared original and fublime, because conveyed in a language imperfectly understood; and that this veil of obscurity operated, like the mirage of the defert, to magnify them to preternatural dimensions. A simple approach often broke the charm; and a thorough acquaintance generally removed all remaining fascination. No man, it is said, ever appeared a hero to his valet; and probably, if the truth were told, no author ever appeared sublime to his translator. Next to the contempt of him who transfates, however, is the indifference of him who reads a translation; and the literati of France found no method so easy and certain to counteract the bias of the public taste, as to pall it with the translations it so eagerly demanded.

The work before us is avowedly a detail of Wernerian opinions, translated from the best authors M. Brochant could procure; and therefore, though a mere compilation ought to be considered rather in the light of a translation, than as an original work, and we at first presumed its author to be one of the favans commendably employed in diminishing the overweening insuence of German mineralogy. He had heard that Werner had effected a revolution in that science—that his system was the standard of authority—and that from his opinion there was no appeal; that, deeply read in the great book of nature, his eye could determine the relative antiquities of the families of minerals—arrange their claims to precedence with more than heraldic

raldic precision, from ancient granite to upstart lava—and with nice discrimination detect pretenders to antiquity, though congregated with primeval formations, and clothed in the most deceptive garb. Though hailed by universal acclamation the first of German mineralogists, the reputation of Werner has been maintained in other countries by little more than the echo of applause. His few publications are almost unknown beyond the limits of Germany, and are only fragments of that vast mass of illustration and observation which his lectures contain; and though some notion of them is given by the manuscript notes which are circulated, and form the basis of many works, they

labour under unavordable imperfection and inaccuracy.

Enveloped in an obscurity that parrook of the sublime, the fystem, the geology, and the lectures of Werner, were talked of in other countries with an affectation of knowledge which few possessed, and with a real ignorance which all were ashamed to own. Yet how was this information to be procured? The odious toil of acquiring the most repulsive of modern languages. produced little advantage; for it only gave access to books, which all assumed the system of Werner as their basis, and all varied in their exposition of it. The means of undertaking a journey to Freyberg, are possessed by few; and they must be zealous indeed, who would not thrink from fuch a pilgrimage. To convey in a language generally accessible an accurate detail of Werner's Oryctognofie—to reconcile, by an accurate lift of fynonymes, the difcordance of various nomenclatures—and to afford a fair specimen of the mode of description which has been so generally celebrated, was an undertaking of confiderable difficulty in the execution, but could not fail to prove eminently beneficial when performed.

Such is the task which M. Brochant has undertaken; and. aware of the scanty materials which the industry and accuracy of others had prepared for his aid, we prefumed that he had drained unadulterated draughts of information from the fountain-head at Freyberg, and that the stream he presented us with was unpolluted, by passing through intermediate channels. But when we had perufed the observations that preface his two portly volumes, our rifing feelings of gratitude were checked, by being informed that the Profesior of Freyberg was only known to him through the corrupted mediums of the books which pretend to give the substance of his lectures-that he had never been in Germany-and had not even enjoyed the conversation of any German mineralogist of distinguished eminence. We were almost led to fear that the author before us was one of the faction who ignorantly or malevolently traduce the reputation of K k 2 foreign foreign writers, by misconceiving their opinions, and mistaking their doctrines. A minute examination of the performance, however, has convinced us that our suspicions were unsounded, and that we owed M. Brochant a large debt of gratitude, although we may still regret that he was prevented from seeking for more authentic information, from enlarging his views, and removing many remaining obscurities by personal interviews, and the collation of specimens.

M. Brochant informs us, that he originally proposed only to exhibit a concife view of the mineralogical principles of Werner, accompanied by a lift of fynonymes; but that, afterwards, conceiving this mode inadequate to the extent and importance of the subject, he determined on compiling a complete treatife, enriched by fuch geological observations as he was able to collect. In preparing for the execution of this extensive undertaking, he has examined every systematic German work of eminence; he has extracted from them the most valuable parts of the mass of information they contain; and has frequently displayed no small fagacity in felecting from their jarring statements that which best assimilated with the known principles of Werner. rangement is copied exactly after that adopted by Werner in the lectures delivered during the fession preceding the publication of the first volume of the work; his descriptions are compiled from the collected authorities of all the authors he has confulted, and, in general, are rendered much preferable to the originals. by his attention to perspicuity and brevity. The lift of synonymes, though in general correct and ample, not unfrequently prefents instances of the ambiguity and obscurity which have long been the difgrace of mineralogy. M. Brochant has with great judgement retained the German name, when he found no corresponding denomination established in the French language. As most of the German names are fignificant, the temptation to translating them was great, but he has relisted it; and whoever has attended to the subject, must think he acted wifely in not adding to a host of appellations which defy the utmost efforts of memory to retain them, and which have involved mineralogy in an obscurity that hitherto has proved, in many instances, inexplicable.

Confiderable delay having occurred in the publication of the fecond volume, M. Brochant has availed himself of it, to announce secent additions and changes, and to detail the discoveries which have led to them. He has also enriched his work, by giving accounts of such substances as, from their novelty and rarity, had not formerly been incorporated in the system of Werner; and he has added a sketch of geological arrangement, il-

lustrated

accomplished.

lustrated by descriptions of rocks, principally compiled from notes taken at Freyberg by M. Daubuisson, whose translation of Werner's Theory of Mineral Veins we have noticed in a sormer article. Folio tables of the external characters, expressed in French, Latin, and German, accompany the publication.

It is obvious that the merits of a work of this species must be limited to industry in collecting materials, and fidelity in retailing them. Both of these requisites M. Brochant appears to possess in a very eminent degree. The structure of his mind, indeed, seems rather to partake of German industry and phiegm, than of French vivacity and caprice; and had his education given another direction to his views, it is probable that his perseverance would have affured him fame as a classical editor and comment iter. More gifted with judgment than imagination, and possessing more industry than genius, he has preferred the collation of dull and prolix authors to the delightful recreations of original theory; and has endeavoured to felect from the knowledge others have accumulated, rather than to expand his ideas by actual observation and speculative research. Possessed of his subject, rather than carried on by it, he expounds, with equal coolness, Werner's incredulity as to the composition of the diamond, and the important confequences of Hauy's crystallographic discoveries. When he ventures a remark, it is of illustration only, and he abstains with impartiality from the expression of applause or disapprobation. He has wisely considered his work as the mere vehicle of Wernerian dogmas, and has left the mineralogists of France to determine on the merits of the fystem he has expounded.

Such remarks as we might have offered on this celebrated system. have been in a great degree anticipated by our observations on part of the new edition of Emmerling's Mineralogy. Though that work is deformed by many errors peculiarly its own, yet so many of our remarks are susceptible of a more general application, that we thall not intrude on the attention of our readers, what could amount to little more than a recapitulation. It is equally unneceffary for us to point out the particular passages to which we allude, as the application must be obvious to all who examine this trea-M. Brochant informs us, that he confiders the geologic obfervations as a mere sketch, added in order to render his work more generally useful; but by no means intended to superfede a more detailed treatife on a fubject of fuch extreme importance, and towards which the powerful talents of Werner have been to long directed. We shall therefore suspend all observations on this subject, till we have before us a more complete work; and conclude, by thanking M. Brochant for what he has successfully performed, rather than complain of him for what he has left un-

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QUARTERLY LIST OF NEW PUBLICATIONS,

Frem 25. October 1803, to 20. January 1804.

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Observations on the Utility of cutting Hay and Straw, and bruising Corn, for Feeding Animals, elucidated by Agricultural Practice; with a description of the best Machines for that purpose; also, a new Discovery, of the utmost importance to the Agricultural World, by which may be separated the more nutritious parts of Straw, for feeding Animals, from the Result to be used for Litter. By W. Lister, Farmer and Engineer. 8vo. with cuts.

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The principles upon which the Work is conducted are of a popular cast, and well-calculated to secure the approbation of practical agriculturists. The utility of leases; the propriety of giving the farmer a longer portion of discretionary management than hitherto entrusted to him; and the necessity of removing every obstacle to improvement, are subjects much insisted upon. Want of room in this place prevents us from giving a more enlarged view of this Publication; but it will probably be taken up at an after period, when its merits shall be more accurately investigated.

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Metropolis have not corrupted the Language of their Ancestors. By Samuel Pegge, Esq. F. S. A. 8vo. boards.

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